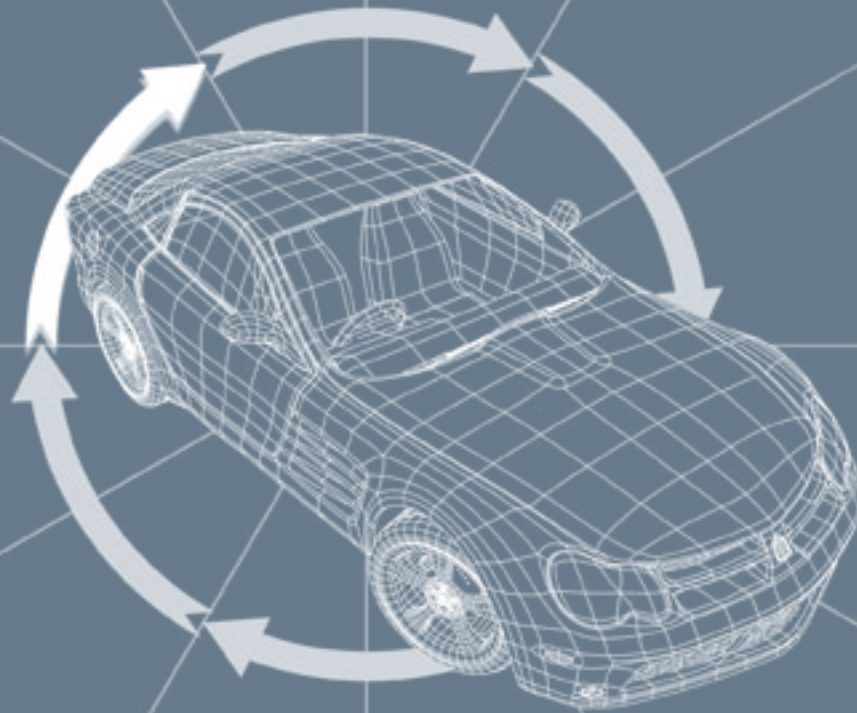


AUTOMOTIVE Design and Prototype SELECTOR GUIDE

Time to market demands are increasingly tight for design engineers in the global automotive industry. To be successful, it is critical to be first to market with the latest design innovation or the latest model.

With the broad range of flexibilities and properties available in our RenShape® Solutions line, we can quickly and economically provide our customers with functional prototypes to meet specific project requirements.



Modeling boards

Product	Colour	Density (g/cm ³)	Hardness Shore D ISO 868	Compres. Strength ISO 604 (MPa)	Compres. Modulus ISO 604 (MPa)	Coefficient of Thermal Expansion ISO 11359 (10 ⁻⁶ K ⁻¹)	Deflection Temp. ISO 75 (°C)	Comments
RenShape® BM 5108	White	0.08	–	–	–	–	–	Design studies, program proving, supporting structures
RenShape® BM 5025	Apricot	0.24	–	3.7	140	60-70	60	Styling, master models, data control models, supporting structures, negative moulds for netsize casting
RenShape® BM 5185	Apricot	0.47	–	10-15	500-600	60-65	60-70	Styling and master models
RenShape® BM 5440	Brown	0.5	55-60	15-20	600-700	50-55	75-80	Master models, cubing models, patterns
RenShape® BM 5460	Brown	0.7	60-65	20-25	910-960	50-55	75-80	Master models, cubing models, patterns

Tooling boards

Product	Colour	Density (g/cm ³)	Hardness Shore D ISO 868	Barcol-Hardness	Compres. Strength ISO 604 (MPa)	Compres. Modulus ISO 604 (MPa)	Coefficient of Thermal Expansion ISO 11359 (10 ⁻⁶ K ⁻¹)	Deflection Temp. ISO 75 (°C)	Comments
Polyurethane									
RenShape® BM 5066	Beige	1.1	75-80	–	55-60	–	60-65	–	Foundry tools, jigs and fixtures
RenShape® BM 5112	Grey	1.5	80-85	–	50-60	2 400-2 800	95-105	85-90	Hammer forms and flanging tools
RenShape® BM 5166	Ivory	1.7	85-90	30-35	90-100	7 000-7 500	45-50	75-80	Sheet metal forming tools, hammer forms, control fixtures and jigs
RenShape® BM 5266	Dark grey	1.7	85-90	40-45	125-130	7 000-7 500	45-50	120-125	Metal forming tools
Epoxy									
RenShape® BM 5055	Green	0.72-0.75	75	–	50-55	2 300-2 400	35-45	135-140	Lay up tools for prepregs, vacuum forming moulds

Board bonding adhesives

Product	Colour	Mix Ratio (pbw)	Pot Life (min)	Clamping Time (hr)	Recommended for Board
Araldite® AW 106 / HV 953U	Transparent	100:60	60-90	18	BM 5066
Araldite® AW 106 / HV 953U	Transparent	100:60	60-90	12	BM 5166
Araldite® AW 106 / HV 953U	Transparent	100:60	60-90	12	BM 5266
Araldite® AW 106 / HV 953U	Transparent	100:100	60-90	18	BM 5112
RenGel® SW 18 / Ren® HY 2404	Green	100:20	10-15	1	BM 5055
RenGel® SW 18 / Ren® HY 5159	Green	100:16	25	3	BM 5055
RenCast® FC 52 Polyol / FC 52 Isocyanate	Ligth beige	100:100	5-7	3-5	BM 5185
RenPaste® SV 36 / Ren® HY 5162	White	100:35	45	12	BM 5108

Modeling pastes

Product	Colour	Mix Ratio (pbw)	Pot Life at 25°C (min)	Density (g/cm ³)	Hardness Shore D ISO 868	Coefficient of Thermal Expansion ISO 11359 (10 ⁻⁶ K ⁻¹)	Deflection Temp. ISO 75 (°C)	Flexural Strength ISO 178 (MPa)	Comments
RenPaste® SV 36 / Ren® HV 36	Brown	100:100	60	0.5	55-60	40	55-60	18	Easily machinable formulation, very good adhesion
RenPaste® SV 427-2 / Ren® HV 427-1	Brown	100:100	40	0.6	50-55	65-70	55-60	20-25	Easily machinable formulation, very good adhesion

Seamless modeling pastes (machine applied)

Product	Colour	Mix Ratio (pbw)	Minimum Cure Schedule	Density (g/cm ³)	Hardness Shore D ISO 868	Coef. of Thermal Expansion ISO 11359 (10 ⁻⁶ K ⁻¹)*	Deflection Temp. ISO 75 (°C)*	Compres. Strength ISO 604 (MPa)*	Flex. Strength ISO 178 (MPa)*	Comments
XD 4601-1 / XD 4601-1	Light brown	100:100	Machinable in 1-2 days	0.52-0.57	40	106	45-50	8	6.5	Styling models in layers up to 30 mm
RenPaste® SV 4503-1 / Ren® HV 4503-1 /	Brown	100:100	Machinable after 1 day (RT** curing)	0.75-0.8	55-60	101	42	11.5	11	Master and data control in layer up to 40 mm
XD 4563-1 / HV 4503-1	Grey	100:100	Machinable after 1 day (RT** curing)	0.75-0.8	55-60	101	42	11.5	11	Master and data control in layer up to 40 mm

* Properties after 3 days at room temperature • ** Room Temperature = 25°C

Net size modeling

Product	Mix Ratio (pbw)	Pot Life (3 kg) at 25°C (min)	Recommended Cure Schedule (°C)	Density (g/cm ³)	Hardness Shore D ISO 868	Compres. Strength ISO 604 (MPa)	Compres. Modulus ISO 604 (MPa)	Deflection Temp. ISO 75 (°C)	Comments
RenCast® 5146 / RenCast® 5146	80:100	20-30	7 days @ 20-25 or 14 hr @ 40	1.2	80	85-90	3000	75-80	Long pot life, low viscosity
RenCast® 5146 / RenCast® 5146 / DT 082	80:100:330	30-40	7 days @ 20-25 or 14 hr @ 40	1.6	85	90-95	9500	75-80	Lower CTE, high compressive modulus

Product	Colour	Density (g/cm ³)	Hardness Shore D ISO 868	Flexural Strength ISO 178 (MPa)	Compres. Modulus ISO 604 (MPa)	Deflection Temp. ISO 75 (°C)	Comments
RenTool® 5148	Blue	1.8	85-90	80	9500	45	Good general properties
RenTool® 5149	Ivory	1.9	90-95	80	10500	40	High compressive modulus
RenTool® 5150	Brown	0.75-0.8	65-70	80	700-800	65-70	Good temperature performance
RenTool® 5152	Grey	1.9	90-95	115	13000	40	High flexural strength

Gelcoats

Product	Colour	Mix Ratio (pbw)	Pot Life 250 ml (min)	Demoulding Time (hr)	Density (g/cm ³)	Hardness Shore D ISO 868	Deflection Temp. ISO 75 (°C)	Comments
RenGel® SW 10 / Ren® HY 2404	White	100:10	20	12	1.5	85-90	60-70	Negatives, moulds and fixtures
RenGel® SW 10 / Ren® HY 5159	White	100:8	60	12	1.5	85-90	80	Negatives, moulds and fixtures
RenGel® SW 18 / Ren® HY 2404	Green	100:20	10-15	12	1.3	85-90	85	Wet lay-up tools, vacuum forming tools, RTM moulds
RenGel® SW 18 / Ren® HY 5159	Green	100:16	25	12	1.3	85-90	100	Wet lay-up tools, vacuum forming tools, RTM moulds
RenGel® SW 56 / Ren® HY 2404	Caramel	100:13	10-15	12	1.5	90	100	Foam and vacuum forming tools, pressure casting moulds (ceramics)
RenGel® SW 56 / Ren® HY 5159	Caramel	100:10	25-30	12	1.5	90	120	Foam and vacuum forming tools, pressure casting moulds (ceramics)
RenGel® SW 404 / Ren® HY 2404	Blue	100:10	15	12	1.8	85-90	80	Foundry patterns, copy-milling models
RenGel® SW 404 / Ren® HY 5159	Blue	100:8	50	12	1.8	85-90	100	Foundry patterns, copy-milling models
RenGel® SW 419-1 / Ren® HY 2419	Black	100:13	15-20	12	2.3	85-90	60-70	Sheet metal forming tools, foundry patterns
Coupling Coat P99 / Ren® HY 5159	Grey	100:11	30	12	1.5	90	120	Universally applicable on the tacky gelcoat

Laminating systems for tooling applications

Product	Colour	Mix Ratio (pbw)	Pot Life 500 ml at 23°C (min)	Recommended Cure Schedule (°C)	Deflection Temperature ISO 75 (°C)	Comments
RenLam® LY 90 / Ren® HY 956	White	100:16	30	7 days @ RT* or 14 hr @ 40	60	Slightly filled, white, general purpose
RenLam® LY 113 / Ren® HY 97-1	Clear to pale yellow	100:30	80	–	121	Low viscosity, long pot life, medium temperature performance
RenLam® LY 113 / Ren® HY 98	Clear to pale yellow	100:30	190	–	120	Low viscosity, long pot life, medium temperature performance
RenLam® CY 219 / Ren® HY 5160	Pale yellow	100:50	80	7 days @ RT* or 14 hr @ 40	45-50	Good properties with RT* cure
RenLam® CY 219 / Ren® HY 5161	Pale yellow	100:50	40	7 days @ RT* or 14 hr @ 40	50-55	Good properties with RT* cure
RenLam® CY 219 / Ren® HY 5162	Pale yellow	100:50	20	7 days @ RT* or 14 hr @ 40	55-60	Good properties with RT* cure
RenLam® LY 5210 / Ren® HY 5212	Amber	100:40	124	–	180-200	Long pot life with high temperature performance
RenLam® LV 10 / Ren® HY 97 blue	Grey blue	100:20	60	14 hr gradually to 120	125	Fibre reinforced paste, easy to handle
Resin XD 4610 / Ren® HY 5158	Light yellow	100:19	45	14 hr up to 120	120	Medium temperature performance
Resin XD 4610 / Ren® HY 5159	Light yellow	100:19	40	14 hr up to 120	120	Medium temperature performance
Resin XD 4631 / XD 4629	Clear	100:45	20	–	70	Clear system, fast pot life, medium temperature performance
Resin XD 4631 / XD 4630	Clear	100:40	100	–	105	Clear system, long pot life, high temperature performance

* Room Temperature = 25°C

Laminating systems for composite applications

Product	Mix Ratio (pbw)	Pot Life 100 g at 23°C (min)	Gel Time at 80°C (min)	Recommended Cure Schedule (°C)	Tg* (°C)	Flexural Strength ISO 178 (MPa)	Ultimate Flexural Elongation (%)	K _{1c} (MPa√m)** G _{1c} (J/m²)**
Araldite® LY 5052 / Aradur® 5052	100:38	110-160	14-17	8 hr @ 80	114-122	116-122	8.5-13.4	0.77-0.83 192-212
Araldite® LY 3297 / Aradur® 3298	100:40	120-135	18-26	8 hr @ 80	90-96	125-130	7.0-8.2	0.85-0.95 215-245
Araldite® LY 3297 / Aradur® 3299	100:40	40-50	10-16	8 hr @ 80	94-100	123-128	9.0-12.0	0.80-0.90 195-225
Araldite® LY 3505 / XB 3403	100:35	600-720	36-48	4 hr @ 60 + 6 hr @ 80	78-83	110-130	10.5-13.0	0.95-1.05 250-280
Araldite® LY 3505 / XB 3404-1	100:35	80-100	11-18	4 hr @ 60 + 6 hr @ 80	76-81	125-145	6.5-9.5	0.80-0.95 160-200
Araldite® LY 3505 / Aradur® 3405	100:35	26-36	5-11	4 hr @ 60 + 6 hr @ 80	87-92	135-155	7.0-9.0	0.80-0.90 150-190

* IEC 1006, DSC, 10 K/min • ** Fracture Properties (K_{1c}, G_{1c}): CG Method PM 258-0/90 (Bend Notch Test) / K_{1c} (MPa√m): Fracture toughness - G_{1c} (J/m²): Fracture energy

Prepreg systems

Product	Mix Ratio (pbw)	B-Staging	Shelf Life at 23°C	Recommended Cure Schedule (°C)	Tg** (°C)	Comments
Resin XB 3515 / Aradur® 5021	100:24	Physical B-Stage	> 40 days	1 hr @ 120 + 2 hr @ 140	140-146	B-staging on line
Resin XB 3540 / Aradur® 5021	100:18	Physical B-Stage Drying condition 10 min @ 90°C	> 1 month	30 min @ 140	114-124	Solvent based prepreg
Araldite® LY 556 / Aradur® 5021 / XB 3403	100:25:12	Chemical B-Stage 24 hr @ RT*	> 6 weeks	90 min @ 120	115-125	Easy B-staging
Araldite® LY 556 / Aradur® 5021 / XB 3471	100:25:14	Chemical B-Stage 3 min at 80-90°C	> 3 weeks	90 min @ 120	115-125	Sharp B-staging
Resin XU 3508 / Aradur® 5021 / XB 3403	100:22:12	Chemical B-Stage 24 hr @ RT*	> 6 weeks	90 min @ 120	110-120	Toughened prepreg with easy B-staging
Resin XU 3508 / Aradur® 5021 / XB 3471	100:22:14	Chemical B-Stage 3 min @ 80-90°C	> 3 weeks	90 min @ 120	110-120	Toughened prepreg with sharp B-staging
Araldite® LY 5150 / Aradur® 5021 / XB 3471	100:12:4	Chemical B-Stage 3 min @ 80-90°C	6 - 8 weeks	1 hr @ 130	135-145	High Tg prepreg

* Room Temperature = 25°C • ** IEC 1006, DSC, 10 K/min

Casting systems

Product	Colour	Mix Ratio (pbw)	Pot Life 1000 ml (min)	Viscosity (mPas)	Layer Thickness (mm)	Compres. Strength ISO 604 (MPa)	Flex. Strength ISO 178 (MPa)	Deflection Temp. ISO 75 (°C)	Demoulding Time (hr)	Comments
RenCast® CW 20 / Ren® HY 49	Blue	100:5	110	15 000	< 30	135-145	105-115	65-70	7 days @ 20-25°C or 14 hr @ 60°C	General purpose, high compression strength
RenCast® CW 47 / Ren® HY 33	Grey	100:15	240	17 000	< 100	150-160	115-125	200-210	3-4 days @ 20-25°C or 14 hr @ 60°C	High temperature performance, high compression strength
RenCast® CW 61 / Ren® HY 97 blue	Grey	100:10	150	3 000	< 40	130-140	90-100	100-120	24	Low viscosity, high chemical resistance, medium temperature performance
RenCast® CW 2215 / Ren® HY 5160	Yellow	100:20	120	4 000	< 80	80-90	65-75	50-55	16	Mineral filled, low density
RenCast® CW 2215 / Ren® HY 5161	Yellow	100:20	45	5 000	< 20	80-90	60-70	55-60	12	Mineral filled, low density
RenCast® CW 2215 / Ren® HY 5162	Yellow	100:20	25	5 000	< 10	80-90	60-70	60-65	10	Mineral filled, low density
RenCast® CW 2418-1 / Ren® HY 5160	Black	100:15	120	4 000	< 80	80-90	80-90	50-55	16	Good abrasion resistance
RenCast® CW 2418-1 / Ren® HY 5161	Black	100:15	60	5 000	< 20	80-90	80-85	55-60	12	Good abrasion resistance
RenCast® CW 2418-1 / Ren® HY 5162	Black	100:15	30	5 000	< 10	80-90	80-85	60-65	10	Good abrasion resistance
RenCast® CW 2418-1 / Ren® HY 5118	Black	100:20	80	15 000	< 40	80-90	80-85	60-65	16	Good abrasion resistance

Recommended cure schedule : 7 days at 25°C or see data sheet

Fastcast polyurethanes

Product	Colour	Mix Ratio (pbw)	Pot Life 1 kg (min)	Density (g/cm³)	Compres. Strength ISO 604 (MPa)	Compres. Modulus ISO 604 (MPa)	Deflection Temp. ISO 75 (°C)	Flex. Strength ISO 178 (MPa)	Comments
RenCast® FC 50 Polyol / FC 50 Isocyanate	Off white	100:20	4-5	1.6	75	3 500	95	45-50	Filled, machinable, polishable
RenCast® FC 51 Polyol / FC 51 Isocyanate	Grey	100:100	4-5	1.6	65	3 000	80	31	1:1 system for thick casting
RenCast® FC 52 Polyol / FC 52 Isocyanate	Beige unfilled	100:100	6-8	1.0	35	1 000	80	25	Low viscosity, pigmentable
RenCast® FC 52 Polyol / FC 52 Isocyanate / DT 082	Beige	100:100:300	10	1.6-1.7	45-50	2 500	85-90	26	Variable filler content for large casting
RenCast® FC 53 Polyol / FC 53 Isocyanate	Beige unfilled	100:100	3-4	1.1	41	1 150	85	41	Low viscosity, fast demould
RenCast® FC 53 Polyol / FC 53 Isocyanate / DT 082	Beige	100:100:300	5-6	1.6-1.7	45-50	2 500	85-90	34	Variable filler content for large casting
RenCast® FC 54 Polyol / FC 54 Isocyanate	Blue	100:100	8	1.6	65-70	3 000	85-90	45	1:1 slower system for thick casting

Recommended cure schedule : 7 days at 25°C

Parts in minutes : Injection grade

Product	Colour	Mix Ratio (pbw)	Pot Life at 25°C (sec)	Demoulding Time at RT* (min)	Max. Layer Thickness (mm)	Hardness Shore D ISO 868	Deflection Temp. ISO 75 (°C)**	Tens. Strength ISO 527 (MPa)	Flex. Modulus ISO 178 (MPa)	Comments
RenPIM® 5212 Polyol / 5212 Isocyanate	Neutral	100:60	100-120	15-20	4	55-65	45	15-25	650	Flexible, simulates HDPE
RenPIM® 5213-1 Polyol / 5213-1 Isocyanate	Caramel	100:65	50-70	15-30	3	78-83	90	35-40	1 400	Flame retardant to UL 94 VO, simulates PP/ABS
RenPIM® 5214 Polyol / 5214 Isocyanate	Beige	100:80	60-80	10-15	4	75-80	120	30-50	1 775	High temperature resistance, pigmentable, simulates PP/ABS
RenPIM® 5215 Polyol / 5215 Isocyanate	Black	100:80	40-60	10-15	4	75-80	130-140	30-40	1 100	High temperature resistance, simulates PP/ABS
RenPIM® 5216 Polyol / 5216 Isocyanate	Neutral	100:80	40-60	15-20	5	75-80	80	30-35	1 200	Toughened, high impact resistance, pigmentable, simulates PP/ABS
RenPIM® 5217 Polyol / 5217 Isocyanate	Black	100:80	40-60	10-15	5	75-80	85-90	35-40	1 250	Toughened, high impact resistance, simulates PP/ABS
RenPIM® 5218 Polyol / 5218 Isocyanate	Black	100:80	100-130	20-30	4	75-80	90-100	40-45	1 900	High flexural modulus, toughened, simulates PP/ABS
RenPIM® 5219 Polyol / 5219 Isocyanate	Neutral	100:80	40-60 min	16-18 hr	20	78-83	70-75	60-70	2 800	For adding to faster systems to reduce reaction rate, for casting thicker layers
RenPIM® 5220 Polyol / 5220 Isocyanate	Black	100:120	45-70	15-20	4	70-80	up to 184	45-50	1 800	Temperature resistance to 180°C, for high temperature applications, simulates PP/ABS
RenPIM® 5221-1 Polyol / 5221-1 Isocyanate	Black	32:100	45-55	15-20	4	70-74	58	30-40	350	High impact material for crash test parts, simulates PE (charpy impact 180 KJ/m²)

* Room Temperature = 25°C • ** Properties after post cure

Parts in minutes : Vacuum grade

Product	Colour	Mix Ratio (pbw)	Pot Life 100 g at 40°C (min)	Demould. Time at 70°C (hr)	Max. Layer Thickness (mm)	Hardness Shore ISO 868	Deflection Temp. ISO 75 (°C)	Tens. Strength ISO 527 (MPa)	Flex. Modulus ISO 178 (MPa)	Comments
RenPIM® VG 5281 Polyol / 5281 Isocyanate	Light amber	100:25	5-10	2	10	40A	NA	0.75	–	Low tack, good resilience, pigmentable
RenPIM® VG 5281 Polyol / 5281 Isocyanate	Light amber	100:30	5-10	2	10	50A	NA	1.67	–	Low tack, good resilience, pigmentable
RenPIM® VG 5282 Polyol / 5281 Isocyanate	Light amber	100:35	5-10	2	10	60A	NA	2.62	–	Low tack, good resilience, pigmentable
RenPIM® VG 5282 Polyol / 5281 Isocyanate	Light amber	100:40	5-10	2	10	70A	NA	4.29	–	Low tack, good resilience, pigmentable
RenPIM® VG 5281 Polyol / 5283 Polyol / 5281 Isocyanate	Light amber	60:40:45	5-10	2	10	80A	NA	5.98	–	Low tack, good resilience, pigmentable
RenPIM® VG 5281 Polyol / 5283 Polyol / 5281 Isocyanate	Light amber	40:60:55	5-10	2	10	90A	NA	12.88	–	Low tack, good resilience, pigmentable
RenPIM® VG 5283 Polyol / 5281 Isocyanate	White	100:70	5-10	2	10	> 90A	NA	22.41	441	Low tack, good resilience, pigmentable
RenPIM® VG 5284 Polyol / 5284 Isocyanate	Amber, semi-transparent	32:100	13-16*	2	10	68D	97**	25	660	High impact resistance, good temperature resistance
RenPIM® VG 5285 Polyol / 5285 Isocyanate	Black	80:100	10*	0.75	10	80D	120**	42	1 400	High heat deflection, good flexibility
RenPIM® VG 5286 Polyol / 5286 Isocyanate	Black	100:150	6	0.75	10	80D	140**	70	2 000	High heat resistance, ABS-like
RenPIM® VG 5287 Polyol / 5287 Isocyanate	Clear transparent	100:150	4-5	2	10	80D	116**	76	2 400	Clear, transparent, UV stabilised, ABS-like
RenPIM® VG 5289 Polyol / 5289 Isocyanate	Brown	100:90	5-6	2	10	78D	84**	64	107	Flame retardant grade, FAR 25 and UL94 VO approved, ABS like
RenPIM® VG 5234 Polyol / 5234 Isocyanate	White	30:100	6*	0.75	5	79D	NA	45	1 450	Pigmentable, PP/ABS like

* Room Temperature = 25°C • ** Properties after post cure

Stereolithography

Product	SLA® System	Colour	Viscosity at 28°C (cps)	Flex. Strength ASTM D-790 (MPa)	Tens. Strength ASTM D-638 (MPa)	Elongation ASTM D-638 (%)	Notched Izod Imp. ASTM D 256 J/m	Heat Deflection Temp. at 0.46 MPa (1.8 MPa) ASTM D-648 (°C)	Comments
RenShape® SL 5195	SLA® 5000	Clear amber	220	49	47	11	54	47 (43)	Highly accurate SL material for master patterns
RenShape® SL 5240	SLA® 250	Clear amber	350	55	37	24	48	58 (50)	PP like parts with high durability
RenShape® SL 5260	SLA® 250	White	290	81	58	12	40	58 (51)	ABS like with fine features
RenShape® SL 5510	SLA® Viper si2	Clear amber	230	103	66	5	26	54 (47)	Highest accuracy SL material
RenShape® SL 5510	SLA® 350 / 3500 / 5000	Clear amber	230	99	77	5	27	62 (53)	Highest accuracy SL material
RenShape® SL 5530	SLA® 350 / 3500 / 5000	Clear amber	270	75	59	4	21	78 (57)	High temperature resistant SL material
RenShape® SL 5530	SLA® 7000	Clear amber	270	115	59	4	21	68 (56)	High temperature resistant SL material
RenShape® SL 7510	SLA® 350 / 3500	Clear amber	400	81	57	10	37	58 (49)	Accurate multi-functional SL material with high throughput
RenShape® SL 7510	SLA® 5000	Clear amber	400	82	44	14	32	51 (47)	Accurate multi-functional SL material with high throughput
RenShape® SL 7510	SLA® 7000	Clear amber	400	61	51	4	27	51 (45)	Accurate multi-functional SL material with high throughput
RenShape® SL 7520	SLA® 7000	Clear amber	570	100	64	6	17	54 (49)	High throughput multi-functional SL material with exceptional surface finish
RenShape® SL 7540	SLA® 5000	Clear amber	360	50	39	22	42	57 (54)	PP like suitable for "snap-fit" parts
RenShape® SL 7545	SLA® Viper si2 3500 / 5000 / 7000	Clear amber	430	58	38	17	34	49 (46)	PP like parts with high durability
RenShape® SL 7560	SLA® Viper si2 3500 / 5000 / 7000	White	250	94	52	11	36	58 (-)	Durable SL material that simulates ABS-like parts
RenShape® SL 7570	Solid state laser	Clear	180	96	59	6	25	55 (-)	Clear parts with excellent accuracy
RenShape® SL 7580	Solid state laser	White	580	82.8	53.1	11	32	63 (52)	ABS-like with good temperature performance
RenShape® SL 7585	Solid state laser	White	770	57.5	40	11	34	61 (-)	Colour change on curing. ABS-like with good temperature performance

Ancillaries

Product	Description	Comments
Filler DT 077-1	White, soft mineral filler	Filler for various applications
Filler DT 078-1	Black, soft mineral filler	Filler for various applications
Filler DT 081	Grey, light mineral filler	Filler for various applications
Filler DT 082	White metalloxid filler	Filler for various applications with high heat absorbtion
Filler DT 5039	Thixotropic agent	Lightweight filler for various applications
Accelerator DY 219	Accelerator for aromatic Epoxy hardeners and Polyurea systems	Accelerator for epoxy and polyurethane formulations
Freeman® Wax Sheets	Self adhesive wax sheets in different thicknesses	Spacing layers to simulate work piece thickness
RenLease® QZ 5101	Mould sealer, water soluble	For sealing of plastic, rubber, wax
RenLease® QV 5110	Mould release agent	Paste release agent for cold and warm curing systems
RenLease® QZ 5111	Mould release agent	Liquid release agent for cold and warm curing systems