

RenShape® SL

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Enriching lives through innovation

Liquid material

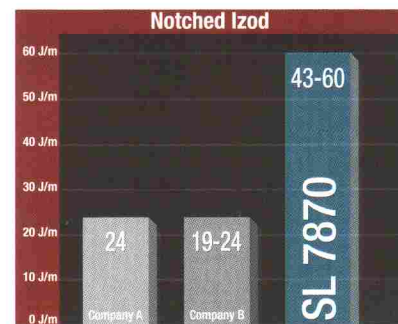
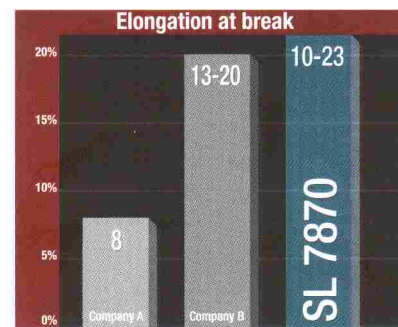
Appearance	Clear
Density at 25°C (77°F)	1.13 g/cm ³
Viscosity	
at 28°C (82°F)	210 cps
at 30°C (86°F)	180 cps
Penetration depth (Dp)	7.2 mils
Critical exposure (Ec)	10.6 mJ/cm ²
Part building layer thickness*	0.10 mm (0.004 in.)

* Dependent upon part geometry and build parameters.

Post-cured material

	90-minute UV post-cure	90-minute UV + 2 hours @ 80°C (176°F) thermal post-cure
Hardness ASTM D-2240	86 Shore D	87 Shore D
Flexural modulus ASTM D-790	1 980-2 310 MPa (286-333 ksi)	2 010-2 350 MPa (289-338 ksi)
Flexural strength ASTM D-790	65-71 MPa (9 400-10 300 psi)	65-74 MPa (9 400-11 000 psi)
Tensile modulus ASTM D-638	1 930-2 020 MPa (278-291 ksi)	1 860-2 030 MPa (268-292 ksi)
Tensile strength ASTM D-638	38-42 MPa (5 470-6 050 psi)	39-42 MPa (5 620-6 050 psi)
Elongation at break ASTM D-638	10-22%	10-23%
Impact strength, notched Izod ASTM D-256	45-61 J/m (0.85-1.15 ft.-lb./in.)	43-60 J/m (0.81-1.13 ft.-lb./in.)
Heat deflection temperature ASTM D-648 @ 66 psi	48°C (118°F)	49°C (120°F)
Glass transition, Tg DMA, E* peak	56°C (133°F)	57°C (135°F)

Comparison tables



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