



**PRODUCT:** RT1000  
**PRODUCT DESCRIPTION:** High Strength Two-Component Engineered Polyurethane

**TECHNICAL DATA - Molded Product**

Properties	Test Method	Units	Unfilled	40% Glass Reinforced*
Flexural Modulus	ASTM D790	psi (MPa)	537,000 (3,700)	1,784,000 (12,300)
Flexural Stress, peak	ASTM D790	psi (MPa)	22,800 (157)	46,850 (323)
Flexural Strain, peak	ASTM D790	%	7.2	2.8
Tensile Modulus	ASTM D638	psi (MPa)	439,500 (3,030)	1,212,660 (8,361)
Tensile Stress, peak	ASTM D638	psi (MPa)	11,310 (78)	12,400 (85)
Tensile Strain at Break	ASTM D638	%	5.4	1.3
Compression Modulus	ASTM D695	psi (MPa)	338,000 (2,330)	
Compression Strength, peak	ASTM D695	psi (MPa)	35,200 (243)	
Compression Strain at Break	ASTM D695	%	51.8	
Notched Izod Impact Strength	ASTM D256	ft-lb/in (J/m)		
+ 40°C			0.2 (9)	10.3 (551)
+ 20°C			0.3 (15)	10.2 (548)
0°C			0.4 (20)	11.0 (586)
- 20°C			1.3 (70)	11.2 (618)
- 40°C			3.6 (193)	12.2 (676)
- 60°C				28.3 (1510)
Unnotched Izod Impact Strength	ASTM D4812	ft-lb/in (J/m)		
+ 40°C			3.0 (162)	14.2 (758)
+ 20°C			3.0 (162)	14.0 (748)
0°C			2.4 (126)	14.3 (762)
- 20°C			5.0 (265)	14.8 (788)
- 40°C			6.6 (354)	14.6 (777)
Durometer	ASTM D2240	Shore D	86	90
Specific Gravity	ASTM D792		1.22	1.41
CLTE, -30°C to 30°C	ASTM E831	ppm/°F (ppm/°C)	33.4 (60.2)	37.1 (66.7)
Glass Transition Temperature	ASTM D3418	°F (°C)	280 (138)	
Heat Deflection Temperature	ASTM D648	°F (°C)	235 (113)	466 (241)
Shrinkage	ASTM D6289	%	0.38	

All samples were annealed at 350°F for 40 min prior to testing  
\*Fiberglass Reinforcement (O.C. Multimat® S600/G500/S600 @ ~40 wt%)

**TECHNICAL DATA - A and B Components**

Properties	Test Method	Units	Isocyanate	RT1000B
Viscosity	Brookfield LVT H2	cP	60-70 @ 130°F (55°C)	200-300 @ 185°F (85°C)

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