

Solvay Specialty Polymers Mindel® S-1000 Modified Polysulfone (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU) , Polysulfone, Modified

Material Notes:

This product line was acquired by Solvay Advanced Polymers from BP Amoco in November 2001.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Mindel-S-1000-Modified-Polysulfone-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
Water Absorption	0.20 %	0.20 %	in 24 hours per ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	66.0 MPa	9570 psi	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	ASTM D638
Flexural Yield Strength	97.0 MPa	14100 psi	ASTM D790
Flexural Modulus	2.63 GPa	381 ksi	ASTM D790
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256
Tensile Impact Strength	270 kJ/m ²	128 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	103 µm/m-°C	57.2 µin/in-°F	ASTM E381
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	103 µm/m-°C	57.2 µin/in-°F	ASTM E381
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	149 °C	300 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 3.30 mm	@Thickness 0.130 in	
	V-0	V-0	
	@Thickness 3.30 mm	@Thickness 0.130 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Constant	3.1	3.1	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
	@Thickness 0.320 mm	@Thickness 0.0126 in	
Dissipation Factor	0.0010	0.0010	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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