

Solvay Specialty Polymers Mindel® B-322 Polysulfone, Modified (PSU, Modified) (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Mindel B-322 is a glass filled, modified polysulfone developed specifically for molded electrical connector applications requiring excellent dimensional stability and resistance to warpage. This material also has a high heat deflection temperature, good creep resistance, tensile and flexural strength and high rigidity. It has outstanding electrical properties, even at high frequencies and temperatures and is rated UL94 V-0 at 1/32" or 0.031"(0.8 mm) in all colors. Humidity resistance is another key feature. Mindel B-322 retains a high level of mechanical and electrical properties even at elevated temperatures, which can make it a suitable replacement for high performance thermosets. - Black:

Mindel B-322 BK 1045

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Mindel-B-322-Polysulfone-Modified-PSU-Modified-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ASTM D792
Water Absorption	0.14 % @Time 86400 sec	0.14 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955
Melt Flow	4.0 - 9.0 g/10 min @Load 2.16 kg, Temperature 275 °C	4.0 - 9.0 g/10 min @Load 4.76 lb, Temperature 527 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D785
Tensile Strength	103 MPa	14900 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	159 MPa	23100 psi	ASTM D790
Flexural Modulus	6.89 GPa	999 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
Tensile Impact Strength	84.1 kJ/m ²	40.0 ft-lb/in ²	ASTM D1822

Thermal Properties	Metric	English	Comments
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CTE, linear, Parallel to Flow Thermal Properties	27.0 µm/m-°C Metric	15.0 µin/in-°F English	ASTM D696 Comments
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	Unannealed; ASTM D648
UL RTI, Electrical	160 °C	320 °F	UL 746
UL RTI, Mechanical with Impact	160 °C	320 °F	UL 746
UL RTI, Mechanical without Impact	160 °C	320 °F	UL 746
Flammability, UL94	V-0 @Thickness 0.790 mm	V-0 @Thickness 0.0311 in	UL 94
Oxygen Index	35 %	35 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7	3.7	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.7	3.7	
Dielectric Strength	20.0 kV/mm	508 kV/in	Method B (Step-by-Step); ASTM D149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	20.0 kV/mm	508 kV/in	
Dissipation Factor	0.0020	0.0020	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	0.0030	0.0030	
Dielectric Strength	29.0 kV/mm	737 kV/in	Method B (Step-by-Step); ASTM D149
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	30.0 kV/mm	762 kV/in	
Dissipation Factor	0.0090	0.0090	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0090	0.0090	

Electrical Properties	Metric @Frequency 1.00e+6 Hz	English @Frequency 1.00e+6 Hz	ASTM D150 Comments
Arc Resistance	125 sec	125 sec	ASTM D495

Processing Properties	Metric	English	Comments
Melt Temperature	271 - 316 °C	520 - 601 °F	
Mold Temperature	65.6 - 98.9 °C	150 - 210 °F	
Drying Temperature	135 - 163 °C @Time 10800 - 14400 sec	275 - 325 °F @Time 3.00 - 4.00 hour	
Moisture Content	0.020 %	0.020 %	

Descriptive Properties	Value	Comments
Additive	Flame Retardant	
Appearance	Colors Available	
	Natural Color	
Availability	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Flame Retardant	
	Good Chemical Resistance	
	Good Dimensional Stability	
	High Rigidity	
	Warp Resistant	
Forms	Pellets	
Processing Method	Injection Molding	
RoHS Compliance	RoHS Compliant	
Suggested Max Regrind, %	25	
Uses	Appliance Components	

Descriptive Properties	Appliances Value	Comments
	Business Equipment	
	Electrical Housing	
	Electrical Parts	
	Electrical/Electronic Applications	

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