

Solvay Specialty Polymers Mindel® B-430 Polysulfone, Modified (PSU, Modified) (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU) , Polysulfone, 30% Glass Fiber Reinforced

Material Notes:

Mindel B-430 is a 30% glass reinforced thermoplastic with excellent dimensional stability, exceptional resistance to warp, good chemical resistance, and high stiffness. It was developed specifically for electrical/electronic applications requiring flame resistance, but where flame retardant systems based on polybrominated diphenyl- oxides or ethers are undesirable. The resin has a UL 94 V0 rating at 0.062" (1.57 mm) thickness, even though it does not contain polybrominated diphenyl- ethers or oxides. This material can therefore be used in areas of the world where the use of flame retardants based on polybrominated diphenylethers/ oxides may be restricted. Mindel B-430 resin's resistance to warping results from low isotropic shrinkage. Combined with high stiffness, good creep resistance and high heat distortion temperature, Mindel B-430 resin may be ideally suited for use in demanding electrical components such as relays, switches, motor starters and control housings. Mindel B-430 resin should also be considered for electrical connectors that do not have the demanding temperature requirements of surface mount technology. The material has excellent regrind stability and, unlike polyesters, retains a high level of mechanical and electrical properties even at elevated temperatures and humidities. - Black: Mindel B-430 BK 174 - Natural: Mindel B-430 NT - Grey: Mindel B-430 GY 674 - Custom Colorable

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Mindel-B-430-Polysulfone-Modified-PSU-Modified-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Filler Content	30 %	30 %	Glass Fiber
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0025 cm/cm	0.0025 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D955
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 275 °C	7.0 g/10 min @Load 4.76 lb, Temperature 527 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	121 MPa	17500 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	185 MPa	26800 psi	ASTM D790
Flexural Modulus	9.38 GPa	1360 ksi	ASTM D790

Impact Notched Mechanical Properties	0.981 J/cm Metric	1.80 ft-lb/in English	ASTM D256 Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	166 °C	331 °F	Unannealed; ASTM D648
UL RTI, Electrical	150 °C	302 °F	UL 746
UL RTI, Mechanical with Impact	150 °C	302 °F	UL 746
UL RTI, Mechanical without Impact	150 °C	302 °F	UL 746
Flammability, UL94	V-0 @Thickness 1.57 mm	V-0 @Thickness 0.0618 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	ASTM D257
Comparative Tracking Index	180 V	180 V	UL 746
	175 - 250 V	175 - 250 V	PLC 3; UL 746
Hot Wire Ignition, HWI	120 sec	120 sec	UL 746
	>= 120 sec	>= 120 sec	PLC 0; UL 746
High Voltage Arc-Tracking Rate, HVTR	10.0 mm/min	0.394 in/min	UL 746
	<= 10.0 mm/min	<= 0.394 in/min	PLC 0; UL 746

Processing Properties	Metric	English	Comments
Melt Temperature	271 - 288 °C	520 - 550 °F	
Drying Temperature	135 - 163 °C @Time 10800 - 14400 sec	275 - 325 °F @Time 3.00 - 4.00 hour	
Injection Pressure	103 - 138 MPa	14900 - 20000 psi	

Descriptive Properties	Value	Comments
Additive	Flame Retardant	
Appearance	Colors Available	
	Natural Color	
Availability	Asia Pacific	

Descriptive Properties	Value	Comments
	North America	
	South America	
Features	Flame Retardant	
	Good Chemical Resistance	
	Good Creep Resistance	
	Good Dimensional Stability	
	High Stiffness	
	Warp Resistant	
Forms	Pellets	
Processing Method	Injection Molding	
RoHS Compliance	RoHS Compliant	
Uses	Appliance Components	
	Appliances	
	Business Equipment	
	Electrical Housing	
	Electrical Parts	
	Electrical/Electronic Applications	

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