

Raschig Group MELOPAS® 156 MF Melamine

Category : Polymer , Thermoset , Melamine

Material Notes:

Glass fiber reinforced Melamine molding compound. This product meets the allowed upper limits for heavy metals and PCAs and also conforms to the requirements of the EU directives 2002/95 (RoHS), 2002/96 (WEEE) and 2006/122 (PFOS) Processing: Injection and compression molding Primary application: Molded parts in electrical engineering Information provided by Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-MELOPAS-156-MF-Melamine.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 - 1.90 g/cc	1.80 - 1.90 g/cc	ISO 1183
Apparent Bulk Density	0.600 - 0.800 g/cc	0.0217 - 0.0289 lb/in³	ISO 60
Water Absorption	<= 1.00 % @Temperature 23.0 °C, Time 86400 sec	<= 1.00 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.00500 - 0.00900 cm/cm	0.00500 - 0.00900 in/in	Injection and Compression; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength	40.0 - 50.0 MPa	5800 - 7250 psi	Compression; ISO 527
	45.0 - 60.0 MPa	6530 - 8700 psi	Injection; ISO 527
Modulus of Elasticity	7.00 - 9.00 GPa	1020 - 1310 ksi	Compression; ISO 527
	8.00 - 10.0 GPa	1160 - 1450 ksi	Injection; ISO 527
Flexural Strength	90.0 - 110 MPa	13100 - 16000 psi	Compression; ISO 178
	100 - 120 MPa	14500 - 17400 psi	Injection; ISO 178
Flexural Modulus	9.00 - 11.0 GPa	1310 - 1600 ksi	Compression; ISO 178
	10.0 - 12.0 GPa	1450 - 1740 ksi	Injection; ISO 178
Compressive Strength	200 - 250 MPa	29000 - 36300 psi	ISO 604
Charpy Impact Unnotched	0.400 - 0.700 J/cm²	1.90 - 3.33 ft-lb/in²	Compression; ISO 179/1eU
	0.700 - 0.900 J/cm²	3.33 - 4.28 ft-lb/in²	Injection; ISO 179/1eU
Charpy Impact, Notched	0.150 - 0.300 J/cm²	0.714 - 1.43 ft-lb/in²	Compression; ISO 179/1eA
	0.250 - 0.400 J/cm²	1.19 - 1.90 ft-lb/in²	Injection; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 - 35.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	8.33 - 19.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ISO 11359-2
	@Temperature 50.0 - 100 $^\circ\text{C}$	@Temperature 122 - 212 $^\circ\text{F}$	
Thermal Conductivity	0.500 - 0.600 W/m-K	3.47 - 4.16 BTU-in/hr-ft ² - $^\circ\text{F}$	ASTM E1461
Maximum Service Temperature, Air	150 $^\circ\text{C}$	302 $^\circ\text{F}$	IEC 60216/T1
	@Time 7.20e+7 sec	@Time 20000 hour	
	200 $^\circ\text{C}$	392 $^\circ\text{F}$	IEC 60216/T1
	@Time <= 180000 sec	@Time <= 50.0 hour	
Deflection Temperature at 1.8 MPa (264 psi)	<= 200 $^\circ\text{C}$	<= 392 $^\circ\text{F}$	ISO 75-A
Deflection Temperature at 8.0 MPa	130 - 150 $^\circ\text{C}$	266 - 302 $^\circ\text{F}$	ISO 75-C
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Shrinkage	0.700 - 1.00 %	0.700 - 1.00 %	Post shrinkage; ISO 2577
	@Temperature 110 $^\circ\text{C}$, Time 605000 sec	@Temperature 230 $^\circ\text{F}$, Time 168 hour	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 - 1.00e+12 ohm-cm	1.00e+11 - 1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+10 - 1.00e+11 ohm	1.00e+10 - 1.00e+11 ohm	IEC 60093
Dielectric Constant	7.00 - 9.00	7.00 - 9.00	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	11.0 - 16.0	11.0 - 16.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	20.0 - 30.0 kV/mm	508 - 762 kV/in	IEC 60243-1
Dissipation Factor	0.0200 - 0.0400	0.0200 - 0.0400	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.200 - 0.400	0.200 - 0.400	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Arc Resistance Electrical Properties	120 - 180 sec Metric	120 - 180 sec English	ASTM D495 Comments
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 15.0 - 25.0 °C	@Temperature 59.0 - 77.0 °F	

Descriptive Properties	Value	Comments
Glow wire flammability test	960/1	IEC 60695 2-12
Glow wire ignitability test	900/1	IEC 60695 2-13
Water Absorption	<100 mg	24 hr, 23°C; ISO 62

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