

Raschig Group MELOPAS® 6605 MP Melamine

Category : Polymer , Thermoset , Melamine

Material Notes:

Cellulose reinforced Melamine molding compound. Very good electrical properties, excellent surface hardness, good mechanical strength and heat resistance, good wear and UV-stability, good gliding behavior. 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 molding Primary application: Molded parts in electrical engineering, arc chambers Information provided by Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-MELOPAS-6605-MP-Melamine.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 - 1.70 g/cc	1.50 - 1.70 g/cc	ISO 1183
Apparent Bulk Density	0.550 - 0.750 g/cc	0.0199 - 0.0271 lb/in ³	ISO 60
Water Absorption	<= 2.00 % @Temperature 23.0 °C, Time 86400 sec	<= 2.00 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.00800 - 0.0120 cm/cm	0.00800 - 0.0120 in/in	Injection; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength	60.0 - 85.0 MPa	8700 - 12300 psi	Injection; ISO 527
Modulus of Elasticity	5.00 - 8.00 GPa	725 - 1160 ksi	Injection; ISO 527
Flexural Strength	90.0 - 110 MPa	13100 - 16000 psi	Injection; ISO 178
Flexural Modulus	6.00 - 8.00 GPa	870 - 1160 ksi	Injection; ISO 178
Compressive Strength	200 - 250 MPa	29000 - 36300 psi	ISO 604
Charpy Impact Unnotched	0.700 - 1.10 J/cm ²	3.33 - 5.23 ft-lb/in ²	Injection; ISO 179/1eU
Charpy Impact, Notched	0.130 - 0.200 J/cm ²	0.619 - 0.952 ft-lb/in ²	Injection; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 - 35.0 µm/m-°C @Temperature 50.0 - 100 °C	8.33 - 19.4 µin/in-°F @Temperature 122 - 212 °F	ISO 11359-2
Thermal Conductivity	0.400 - 0.500 W/m-K	2.78 - 3.47 BTU-in/hr-ft ² -°F	ASTM E1461
	135 °C	275 °F	

Maximum Service Temperature, Air Thermal Properties	Metric @ Time 7.20e+7 sec	English @ Time 20000 hour	IEC 60216/T1 Comments
	160 °C	320 °F	IEC 60216/T1
	@Time <=180000 sec	@Time <=50.0 hour	
Deflection Temperature at 1.8 MPa (264 psi)	155 - 180 °C	311 - 356 °F	ISO 75-A
Deflection Temperature at 8.0 MPa	110 - 130 °C	230 - 266 °F	ISO 75-C
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Shrinkage	1.20 - 1.80 %	1.20 - 1.80 %	Post shrinkage; ISO 2577
	@Temperature 110 °C, Time 605000 sec	@Temperature 230 °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 - 25.0 kV/mm	508 - 635 kV/in	IEC 60243-1
Dissipation Factor	0.0300 - 0.0500	0.0300 - 0.0500	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.300 - 0.500	0.300 - 0.500	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Arc Resistance	120 - 180 sec	120 - 180 sec	ASTM D495
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	

Processing Properties Descriptive Properties	Metric	English Value	Comments Comments
Glow wire flammability test		960/1	IEC 60695 2-12
Glow wire ignitability test		900/1	IEC 60695 2-13
Water Absorption		<115 mg	24 hr, 23°C; ISO 62

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