

Raschig Group MELOPLAS® 3025 MF

Category : Polymer , Thermoset , Melamine , Melamine-Phenolic Copolymer , Phenolic

Material Notes:

Cellulose-reinforced and inorganically filled MF molding compound in white and colored shades. High surface hardness, good UV and heat stability, very good resistance to chemicals - also to foodstuff ingredients. Self-extinguishing (V-0/0,8 according to UL 94). Free of halogens and toxic heavy metals. Forms: Low dust granulate packed in moisture resistant bags. Standard bag size: 25 kg palletized in 1.000 kg loads or big-bags. Processing: Injection or Compression. Applications: Pan handles. Information provided by the Raschig Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Raschig-Group-MELOPLAS-3025-MF.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 - 1.80 g/cc	1.70 - 1.80 g/cc	ISO 1183
Apparent Bulk Density	0.600 - 0.800 g/cc	0.0217 - 0.0289 lb/in³	ISO 60
Water Absorption	<= 2.0 % @Temperature 23.0 °C, Time 86400 sec	<= 2.0 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	(longitudinal) Compression; ISO 2577
	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	(longitudinal) Injection; ISO 2257

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 - 65.0 MPa	6530 - 9430 psi	Compression; ISO 527
	50.0 - 90.0 MPa	7250 - 13100 psi	Injection; ISO 527
Modulus of Elasticity	5.00 - 8.00 GPa	725 - 1160 ksi	Injection and Compression; ISO 527
Flexural Strength	80.0 - 100 MPa	11600 - 14500 psi	Compression; ISO 178
	110 - 130 MPa	16000 - 18900 psi	Injection; ISO 178
Flexural Modulus	7.00 - 9.00 GPa	1020 - 1310 ksi	Injection and Compression; ISO 178
Compressive Strength	200 - 250 MPa	29000 - 36300 psi	Injection and Compression; ISO 604
Charpy Impact Unnotched	0.700 - 0.900 J/cm² @Temperature 23.0 °C	3.33 - 4.28 ft-lb/in² @Temperature 73.4 °F	Compression; ISO 179/ 1eU
	0.800 - 1.40 J/cm² @Temperature 23.0 °C	3.81 - 6.66 ft-lb/in² @Temperature 73.4 °F	Injection; ISO 179/ 1eU
Charpy Impact, Notched	0.180 - 0.220 J/cm²	0.857 - 1.05 ft-lb/in²	Injection and Compression; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	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	0.400 - 0.500 W/m-K	2.78 - 3.47 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM E1461
Maximum Service Temperature, Air	140 $^{\circ}\text{C}$	284 $^{\circ}\text{F}$	20,000 h; IEC 60216/T1
	170 $^{\circ}\text{C}$	338 $^{\circ}\text{F}$	< 50 h; IEC 60216/T1
Deflection Temperature at 1.8 MPa (264 psi)	160 - 180 $^{\circ}\text{C}$	320 - 356 $^{\circ}\text{F}$	Injection and Compression; ISO 75-A
Deflection Temperature at 8.0 MPa	120 - 140 $^{\circ}\text{C}$	248 - 284 $^{\circ}\text{F}$	Injection and Compression; ISO 75-C
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Shrinkage	1.0 - 1.5 %	1.0 - 1.5 %	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	7.0 - 9.0	7.0 - 9.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	11 - 16	11 - 16	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	15.0 - 20.0 kV/mm	381 - 508 kV/in	IEC 60243-1
Dissipation Factor	0.030 - 0.050	0.030 - 0.050	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.30 - 0.50	0.30 - 0.50	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	>= 600 V	>= 600 V	CTI; 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
Arc Resistance	5 Stufe	ASTM D495
Glow wire ignitability test	900/1	IEC 60695 2-13
Glow-wire flammability test	960/1	IEC 60695 2-12
Water Absorption	<115 mg	ISO 62; 24h / 23°C

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