

## Raschig Group AMPLA® 7250 melamine-modified polyester

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

### Material Notes:

Cellulose reinforced melamine-modified Polyester molding compound. Very good electrical values, excellent heat resistance, excellent surface quality, low post shrinkage. 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 Applications: Molded parts in electrical engineering, bathroom lamps Information provided by the Raschig Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Raschig-Group-AMPLA-7250-melamine-modified-polyester.php](http://www.lookpolymers.com/polymer_Raschig-Group-AMPLA-7250-melamine-modified-polyester.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.65 - 1.75 g/cc	1.65 - 1.75 g/cc	ISO 1183
Apparent Bulk Density	0.700 - 0.900 g/cc	0.0253 - 0.0325 lb/in <sup>3</sup>	ISO 60
Water Absorption	<= 0.80 % @Temperature 23.0 °C, Time 86400 sec	<= 0.80 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	Compression; ISO 2577
	0.0090 - 0.012 cm/cm	0.0090 - 0.012 in/in	Injection; ISO 2257

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 - 50.0 MPa	4350 - 7250 psi	Compression; ISO 527
	50.0 - 60.0 MPa	7250 - 8700 psi	Injection; ISO 527
Modulus of Elasticity	4.00 - 6.00 GPa	580 - 870 ksi	Compression; ISO 178
	5.00 - 7.00 GPa	725 - 1020 ksi	Injection; ISO 178
Flexural Strength	70.0 - 90.0 MPa	10200 - 13100 psi	Compression; ISO 178
	90.0 - 110 MPa	13100 - 16000 psi	Injection; ISO 178
Flexural Modulus	7.00 - 8.00 GPa	1020 - 1160 ksi	Injection and Compression; ISO 178
Compressive Strength	150 - 200 MPa	21800 - 29000 psi	ISO 604
Charpy Impact Unnotched	0.900 - 1.10 J/cm <sup>2</sup> @Temperature 23.0 °C	4.28 - 5.24 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Compression; ISO 179/ 1eU
	1.10 - 1.30 J/cm <sup>2</sup> @Temperature 23.0 °C	5.24 - 6.19 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Injection; ISO 179/ 1eU

Charpy Impact, Notched Mechanical Properties	0.200 - 0.300 J/cm <sup>2</sup> Metric	0.952 - 1.43 ft-lb/in <sup>2</sup> English	Injection; ISO 179/ 1eA Comments
	0.150 - 0.250 J/cm <sup>2</sup>	0.714 - 1.19 ft-lb/in <sup>2</sup>	Compression; ISO 179/ 1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 - 30.0 µm/m-°C	11.1 - 16.7 µin/in-°F	ISO 11359-2
	@Temperature 50.0 - 100 °C	@Temperature 122 - 212 °F	
Thermal Conductivity	0.500 - 0.600 W/m-K	3.47 - 4.16 BTU-in/hr-ft <sup>2</sup> -°F	DIN 52 612
Maximum Service Temperature, Air	140 °C	284 °F	20,000 h; IEC 216/T1
	180 °C	356 °F	< 50 h; IEC 216/T1
Deflection Temperature at 1.8 MPa (264 psi)	180 - 200 °C	356 - 392 °F	Injection; ISO 75-A
Deflection Temperature at 8.0 MPa	80.0 - 110 °C	176 - 230 °F	Injection; ISO 75-C
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Shrinkage	0.20 - 0.40 %	0.20 - 0.40 %	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	4.0 - 5.0	4.0 - 5.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	5.0 - 7.0	5.0 - 7.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 - 40.0 kV/mm	762 - 1020 kV/in	IEC 60250
Dissipation Factor	0.030 - 0.050	0.030 - 0.050	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.10 - 0.20	0.10 - 0.20	

Electrical Properties	Metric @Frequency 100 Hz	English @Frequency 100 Hz	IEC 60250 Comments
Comparative Tracking Index	600 V	600 V	CTI; IEC 60112

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

Descriptive Properties	Value	Comments
Arc Resistance	4 Stufe	ASTM D495
Water Absorption	<50	ISO 62; 24h / 23°C

## Contact Songhan Plastic Technology Co.,Ltd.

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