

## Raschig Group DECAL® 2061 Phenolic

Category : Polymer , Thermoset , Phenolic

### Material Notes:

Wood flour reinforced phenolic molding compound. Good electrical properties, chemical resistance and mechanical properties. 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 Transfer molding Information provided by Raschig Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Raschig-Group-DECAL-2061-Phenolic.php](http://www.lookpolymers.com/polymer_Raschig-Group-DECAL-2061-Phenolic.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 - 1.40 g/cc	1.30 - 1.40 g/cc	ISO 1183
Apparent Bulk Density	0.500 - 0.700 g/cc	0.0181 - 0.0253 lb/in <sup>3</sup>	ISO 60
Water Absorption	<= 1.20 % @Temperature 23.0 °C, Time 86400 sec	<= 1.20 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.00900 - 0.0110 cm/cm	0.00900 - 0.0110 in/in	Injection; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength	50.0 - 70.0 MPa	7250 - 10200 psi	Injection; ISO 527
Modulus of Elasticity	4.00 - 6.00 GPa	580 - 870 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	0.600 - 0.900 J/cm <sup>2</sup>	2.86 - 4.28 ft-lb/in <sup>2</sup>	Injection; ISO 179/1eU
Charpy Impact, Notched	0.200 - 0.400 J/cm <sup>2</sup>	0.952 - 1.90 ft-lb/in <sup>2</sup>	Injection; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 - 40.0 µm/m-°C @Temperature 50.0 - 150 °C	19.4 - 22.2 µin/in-°F @Temperature 122 - 302 °F	ISO 11359-2
Thermal Conductivity	0.200 - 0.400 W/m-K	1.39 - 2.78 BTU-in/hr- ft <sup>2</sup> -°F	ASTM E1461
Deflection Temperature at 1.8 MPa (264 psi)	160 - 180 °C	320 - 356 °F	ISO 75-A

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Shrinkage	0.500 - 0.700 %	0.500 - 0.700 %	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+16 - 1.00e+17 ohm-cm	1.00e+16 - 1.00e+17 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 - 1.00e+14 ohm	1.00e+13 - 1.00e+14 ohm	IEC 60093
Dielectric Constant	4.00 - 6.00	4.00 - 6.00	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	12.0 - 16.0	12.0 - 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	0.0600 - 0.0800	0.0600 - 0.0800	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	0.600 - 0.800	0.600 - 0.800	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Arc Resistance	60.0 - 120 sec	60.0 - 120 sec	ASTM D495
Comparative Tracking Index	>= 150 V	>= 150 V	IEC 60112

Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 20.0 - 30.0 °C	@Temperature 68.0 - 86.0 °F	

Descriptive Properties	Value	Comments
Glow wire flammability test	900/1	IEC 60695 2-12
Glow wire ignitability test	900/1	IEC 60695 2-13
Water Absorption	<60 mg	24 hr, 23°C; ISO 62

Descriptive Properties	Value	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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