

## Raschig Group 5557 DAP (discontinued \*\*)

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP) Molding Compound, Short Glass Fiber Filled , Filled/Reinforced Thermoset

### Material Notes:

Glass fiber-reinforced and inorganically filled diallylphthalate molding compound (DAP) in various colors. Good mechanical strength together with retention of high electrical properties under hot humid conditions, long term retention of dimensional stability also under severe environmental conditions. Self-extinguishing (V-0/0,6 according to UL 94). Free of toxic heavy metals. Forms: Low dust granulate packed in moisture resistant cartons. Standard carton size: 20 kg palletized in 600 kg loads. Processing: Injection and transfer.

Applications: Connectors Bobbins Potentiometers Switches Information provided by the Raschig Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Raschig-Group-5557-DAP-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Raschig-Group-5557-DAP-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 - 2.00 g/cc	1.80 - 2.00 g/cc	ISO 1183
Apparent Bulk Density	0.750 - 0.900 g/cc	0.0271 - 0.0325 lb/in <sup>3</sup>	ISO 60
Linear Mold Shrinkage	0.0020 - 0.0045 cm/cm	0.0020 - 0.0045 in/in	Injection; ISO 2577

Mechanical Properties	Metric	English	Comments
Flexural Strength	110 - 130 MPa	16000 - 18900 psi	Injection; ISO 178
Flexural Modulus	16.0 - 18.0 GPa	2320 - 2610 ksi	Injection; ISO 178
Compressive Strength	150 - 200 MPa	21800 - 29000 psi	ISO 604
Charpy Impact Unnotched	0.650 - 0.800 J/cm <sup>2</sup> @Temperature 23.0 °C	3.09 - 3.81 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Injection; ISO 179/ 1eU

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 - 55.0 µm/m-°C @Temperature 20.0 - 70.0 °C	25.0 - 30.6 µin/in-°F @Temperature 68.0 - 158 °F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	>= 200 °C	>= 392 °F	Injection; ISO 75-A
Flammability, UL94	V-0 @Thickness 1.00 mm	V-0 @Thickness 0.0394 in	
Shrinkage	0.00 - 0.050 %	0.00 - 0.050 %	Post-shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant	4.5 - 5.5 @Frequency 100 Hz	4.5 - 5.5 @Frequency 100 Hz	IEC 60250
Dielectric Strength	15.0 - 20.0 kV/mm @Thickness 1.00 mm	381 - 508 kV/in @Thickness 0.0394 in	IEC 60243-1
Dissipation Factor	0.0050 - 0.010 @Frequency 100 Hz	0.0050 - 0.010 @Frequency 100 Hz	IEC 60250
Comparative Tracking Index	>= 600 V	>= 600 V	CTI-M; IEC 60112
	>= 600 V	>= 600 V	CTI; IEC 60112

Processing Properties	Metric	English	Comments
Front Barrel Temperature	60.0 - 70.0 °C	140 - 158 °F	
Melt Temperature	100 - 115 °C	212 - 239 °F	
Mold Temperature	170 - 190 °C	338 - 374 °F	

Descriptive Properties	Value	Comments
Water Absorption, max [mg]	15	ISO 62; 24h / 23°C

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China