

## HOS-Technik Homide 250 Bismaleimide Resin

Category : Polymer , Thermoset , Polyimide, TS

### Material Notes:

Homide 250 is a prepolymer bismaleimide resin system with a low softening range of 90-125°C supplied in powder form. The resin can be cured thermally to create a cross-linked thermoset with excellent thermal and mechanical resistance. Homide 250 can be processed in powder form or dissolved in an organic solvent, such as dimethylformamide or N-methylpyrrolidone, up to a concentration of 45% for the production of composite materials.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_HOS-Technik-Homide-250-Bismaleimide-Resin.php](http://www.lookpolymers.com/polymer_HOS-Technik-Homide-250-Bismaleimide-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.95 g/cc	0.0704 lb/in <sup>3</sup>	EN 60893
Water Absorption	0.10 %	0.10 %	EN 60893

Mechanical Properties	Metric	English	Comments
Tensile Strength	300 MPa @Thickness >=1.60 mm	43500 psi @Thickness >=0.0630 in	EN 60893
Modulus of Elasticity	25.0 GPa @Thickness >=1.60 mm	3630 ksi @Thickness >=0.0630 in	EN 60893
Flexural Strength	360 MPa @Thickness >=1.60 mm, Temperature 200 °C	52200 psi @Thickness >=0.0630 in, Temperature 392 °F	Perpendicular to laminations; EN 60893
	425 MPa @Thickness >=1.60 mm, Temperature 150 °C	61600 psi @Thickness >=0.0630 in, Temperature 302 °F	Perpendicular to laminations; EN 60893
	475 MPa @Thickness >=1.60 mm, Temperature 100 °C	68900 psi @Thickness >=0.0630 in, Temperature 212 °F	Perpendicular to laminations; EN 60893
	500 MPa @Thickness >=1.60 mm, Temperature 50.0 °C	72500 psi @Thickness >=0.0630 in, Temperature 122 °F	Perpendicular to laminations; EN 60893
	500 MPa @Thickness >=1.60	72500 psi @Thickness >=0.0630	Perpendicular to laminations; EN 60893

Mechanical Properties	Metric Temperature 20.0 Â°C	English Temperature 68.0 Â°F	Comments
Compressive Strength	440 MPa @Thickness >=5.00 mm, Temperature 200 Â°C	63800 psi @Thickness >=0.197 in, Temperature 392 Â°F	Perpendicular to laminations; EN 60893
	480 MPa @Thickness >=5.00 mm, Temperature 150 Â°C	69600 psi @Thickness >=0.197 in, Temperature 302 Â°F	Perpendicular to laminations; EN 60893
	550 MPa @Thickness >=5.00 mm, Temperature 100 Â°C	79800 psi @Thickness >=0.197 in, Temperature 212 Â°F	Perpendicular to laminations; EN 60893
	620 MPa @Thickness >=5.00 mm, Temperature 50.0 Â°C	89900 psi @Thickness >=0.197 in, Temperature 122 Â°F	Perpendicular to laminations; EN 60893
	650 MPa @Thickness >=5.00 mm, Temperature 20.0 Â°C	94300 psi @Thickness >=0.197 in, Temperature 68.0 Â°F	Perpendicular to laminations; EN 60893
Shear Strength	70.0 MPa @Thickness >=5.00 mm	10200 psi @Thickness >=0.197 in	Parallel to laminations; EN 60893
Izod Impact Resistance	5.50 J/cmÂ² @Thickness >=127 mm	26.2 ft-lb/inÂ² @Thickness >=5.00 in	Parallel to laminations; EN 60893

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	EN 60893
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+6 ohm	1.00e+6 ohm	After immersion in water; EN 60893
Dielectric Constant	4.0	4.0	EN 60893
	@Thickness >=3.00 mm, Frequency 50.0 Hz	@Thickness >=0.118 in, Frequency 50.0 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	Tested in oil. Perpendicular to laminations.; EN 60893
	@Thickness >=3.00 mm,	@Thickness >=0.118 in, Temperature 194 Â°F	

Electrical Properties	Temperature 90.0 A°C Metric	English	Comments
Dissipation Factor	0.010  @Thickness >=3.00 mm, Frequency 50.0 Hz	0.010  @Thickness >=0.118 in, Frequency 50.0 Hz	EN 60893

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