

Vyncolit 4421 XB Novolac Phenolic

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Mineral Filled

Material Notes:

Mineral and organic filled phenolic molding compound with good mechanical properties. USES: Fuse holders, brush holders, circuit breakers, automotive ignition and solenoid covers. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-4421-XB-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	Powder Density; ISO 60
Density	1.55 g/cc	0.0560 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	ISO 527
Elongation at Break	0.60 %	0.60 %	Tensile; ISO 527
	1.4 %	1.4 %	Flexure; ISO 178
Tensile Modulus	13.0 GPa	1890 ksi	ISO 527
Flexural Strength	130 MPa	18900 psi	At Rupture; ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	ISO 178
Compressive Strength	240 MPa	34800 psi	ISO 604
Charpy Impact Unnotched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.250 J/cm ²	1.19 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C @Temperature 20.0 °C	22.2 µin/in-°F @Temperature 68.0 °F	TMA
CTE, linear, Transverse to Flow	50.0 µm/m-°C @Temperature 20.0 °C	27.8 µin/in-°F @Temperature 68.0 °F	TMA
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ISO 75 Af
Flammability, UL94	V-1	V-1	

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
	V-0	V-0	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Shrinkage	0.15 %	0.15 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+9 - 1.00e+10 ohm	1.00e+9 - 1.00e+10 ohm	Dry; IEC 167
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 243
Comparative Tracking Index	175 V	175 V	IEC 112

Descriptive Properties	Value	Comments
Color	Black	
ISO type	PF 2 C3	
Main Filler	Mineral & Organic	
Molding Method	Compression, transfer, injection	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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