

Mitsui MILEX[®],ç XL-325M Phenol Aralkyl Resin, High Molecular Weight

Category : Polymer , Thermoset , Phenolic

Material Notes:

The MILEX[®],ç Family of products is widely featured in brake systems of automobiles made by automakers through Mitsui Chemicals'. The phenolic material is primarily used as binders in brake pad and clutch facing disc friction materials. The advantage of incorporating the MILEX material into a brake design is that the material provides a non-abrasive, vibratory free surface finish, which is very important in the performance of the brake system. Additionally, its superior performance at elevated temperatures and excellent moldability aids in brake noise reduction. The XL series is composed of phenol aralkyl resins, of which there are three different grade levels. The XL line is known for its stable friction and abrasion, excellent heat and chemical resistance and anti-noise and vibratory qualities. In automotive applications, it is used in brake pads due to its stable friction and low abrasion. In electrical applications, the material is used as a molding compound that yields excellent heat and moisture resistant electrical insulation. Applications: Automotive friction materials (brake pads, clutch facing discs, etc) Epoxy resin hardener for electronic materials Additive to improve heat resistance of thermoplastics Adhesives, especially with elastomers, to bond to metal Information provided by Mitsui.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mitsui-MILEX-XL-325M-Phenol-Aralkyl-Resin-High-Molecular-Weight.php

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	90.0 - 96.0 Â°C	194 - 205 Â°F	Softening point

Processing Properties	Metric	English	Comments
Processing Temperature	160 Â°C	320 Â°F	Press Cure, 10 minutes
	180 Â°C	356 Â°F	Post cure, 5 hours
	220 Â°C	428 Â°F	Post cure, 2 hours
	240 Â°C	464 Â°F	Post cure, 2 hours
Cure Time	1.50 - 2.83 min	0.0250 - 0.0472 hour	Gelation time

Descriptive Properties	Value	Comments
Cracking Resistance	4	5=Excellent
Curing Rate	1	1=Slow, 5=Fast
Flow	15-45 m/m	
Hardness	3	1=Hard, 5=Soft
Heat Resistance	4	1-5 (5-Excellent)

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