

Mitsui MILEX™ RN-2410MB Acrylic Rubber Modified Phenolic Resin (discontinued **)

Category : Polymer , Thermoset , Phenolic , Phenolic/Rubber; Molded

Material Notes:

The MILEX™ Family of products is widely featured in brake systems of automobiles made by the top automakers through Mitsui Chemicals' affiliation with leading brake manufacturers. 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 RN series are novolak type phenolic resins modified by special elastomers. This series consists of a grouping of acrylic rubber modified resin in addition to the RS-2210MB grade, a silicon rubber modified resin. This series is recognized worldwide by the automotive industry for its thermal shock and chemical resistant properties. In addition, this particular series possesses anti-brake noise and vibratory qualities in brake pad applications. Some of the most demanding electrical applications choose phenolic resin due to the material's high dielectric strength, superior insulation resistance and high temperature resistance. Typical applications include use as an Epoxy Resin hardener for electronic materials such as encapsulation for I.C., an adhesive with elastomers and to improve the high heat resistance of thermoplastics. 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-RN-2410MB-Acrylic-Rubber-Modified-Phenolic-Resin-nbspdiscontinued-.php

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	92.0 - 102 °C	198 - 216 °F	Softening point

Processing Properties	Metric	English	Comments
Processing Temperature	150 °C	302 °F	Press Cure, 10 minutes
	180 °C	356 °F	Post cure, 5 hours
Cure Time	1.33 - 2.33 min	0.0222 - 0.0389 hour	Gelation time

Descriptive Properties	Value	Comments
Cracking Resistance	3	5=Excellent
Curing Rate	5	1=Slow, 5=Fast
Flow	15-45 m/m	
Hardness	2	1=Hard, 5=Soft
Heat Resistance	2	1-5 (5-Excellent)
Kind of Rubber	Acrylic	

Descriptive Properties	Value	Comments
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