

Malvern Minerals Epoxy with 50% Novacite® Daper Quartz Filler

Category : Polymer , Thermoset , Epoxy

Material Notes:

Novacite® quartz silica has closely controlled sizing that is used extensively in the coatings field. Novacite® has broad acceptance as silica in special purpose, product finishes OEM, automotive and industrial coatings. The unique, disc-like or lamellar shape of Novacite® makes it useful for coating systems where low oil absorption and improved barrier properties are desired. In coatings, the lamellar plate overlap parallel to the substrate surface. It has a polar, wettable surface and is very transparent in the UV and visible range. Its structure alpha (low) quartz, which is stable to 573°C. The crystallography of Novacite shows it is an uncommon variety of quartz, with anhedral or subhedral crystals that cleave along the principal axis of the molecular structure. Information provided by Malvern Minerals Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Malvern-Minerals-Epoxy-with-50-Novacite-Daper-Quartz-Filler.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	77.2 MPa	11200 psi	
Tensile Strength, Yield	65.2 MPa @Strain 0.200 %	9460 psi @Strain 0.200 %	
Elongation at Break	0.00 %	0.00 %	no yield
	1.69 %	1.69 %	
Modulus of Elasticity	6.74 GPa	978 ksi	
Flexural Strength	77.2 MPa @Strain 1.23 %	11200 psi @Strain 1.23 %	
Flexural Modulus	7.17 GPa	1040 ksi	
Compressive Yield Strength	140 MPa @Strain 4.94 %	20300 psi @Strain 4.94 %	
	183 MPa @Strain 28.3 %	26500 psi @Strain 28.3 %	
Compressive Modulus	6.34 GPa	919 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	38.0 Åµm/m-Å°C	21.1 Åµin/in-Å°F	
	@Temperature -53.9 - 22.2 Å°C	@Temperature -65.0 - 72.0 Å°F	
	38.0 Åµm/m-Å°C	21.1 Åµin/in-Å°F	

Thermal Properties	@Temperature 22.2 - 73.9 Â°C Metric	@Temperature 72.0 - 169 Â°F English	Comments
	38.0 Âµm/m-Â°C	21.1 Âµin/in-Â°F	
	@Temperature -53.9 - 73.9 Â°C	@Temperature -65.0 - 165 Â°F	
Thermal Conductivity	0.375 W/m-K	2.60 BTU-in/hr-Â²- Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	146 Â°C	295 Â°F	

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