

Menzolit® SMC 0310

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® SMC 0310 is a low shrink standard SMC providing improved surface quality, reduced shrinkage and warpage. Typical fields of applications are mechanical engineering and electrical industry, where improved dimensional stability and better surface p

General Information			
UL YellowCard	E120779-100101995		
Filler / Reinforcement	Glass \mineral, 30% filler by weight		
Features	Good dimensional stability		
	Low warpage		
	Low smoke		
	Good formability		
	Heat resistance, high		
	Low shrinkage		
	Halogen-free		
	Excellent appearance		
Uses	Electrical/Electronic Applications		
	Engineering application		
Appearance	Available colors		
Forms	Particle		
Processing Method	Compression molding		
Part Marking Code (ISO 11469)	>UP-(MD+GF)??		
Physical	Nominal Value	Unit	Test Method
Density	1.80	g/cm³	ISO 1183
Molding Shrinkage	0.050	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	12000	MPa	ISO 527-2
Tensile Stress (Yield, Compression Molded)	75.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	10000	MPa	ISO 178
Flexural Stress (Compression Molded)	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Compression Molded)	80	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	130	°C	DSC
CLTE - Flow	1.2E-5	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	HB		UL 94
Glow Wire Ignition Temperature	750	°C	IEC 60695-2-13
Oxygen Index	22	%	ISO 4589-2
Additional Information			
Shrinkage, ISO 2577: 0.05%Post Moulding Shrinkage, DIN 53464: 0%Heat Distortion Temperature, EN ISO 75-2: >200°CContinuous Service Temperature, Menzolit Method: 140°C Glow Bar, IEC 60707-3: BH2 ≤ 95			
Injection	Nominal Value	Unit	
Mold Temperature	135 - 150	°C	
Injection Pressure	8.00 - 10.0	MPa	

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