Menzolit® BMC 2310

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® BMC 2310 is a bulk moulding compound based on unsaturated polyester resin. The product is reinforced with syntetic fibres and contains mineral fillers. In case of fire the product doesn't melt, neither does it form droplets nor is smoke generation excessive. The material is injection moulded in heated steel moulds. It is recommended to work with chrome plated tools. The product contains no halogens nor any heavy metals.
Menzolit® BMC 2310 is a chemically resistant grade reinforced with special fibres. Being completely glass-free (no glass fibre reinforcement) it is specifically recommended for the manufacture of high voltage switchgear where SF6 is used to quench the arc. The specific fibre used is not affected by SF6 gas whereas glass fibre may erode away.

General Information			
Filler / Reinforcement	Filler Mineral		
Features	Good Chemical Resistance Halogen Free Low Smoke Emission		
Appearance	Cream		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.40	g/cm³	ISO 1183
Molding Shrinkage			
-- [1]	0.0	%	DIN 53464
--	0.18	%	ISO 2577
Water Absorption (Saturation, 23°C)	< 0.50	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9000	MPa	ISO 527-4
Tensile Stress (Break)	20.0	MPa	ISO 527-4
Flexural Modulus	10000	MPa	ISO 14125
Flexural Stress	45.0	MPa	ISO 14125
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength	25	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 200	°C	ISO 75-2/A
Continuous Use Temperature	165	°C	
Glass Transition Temperature	165	°C	ISO 11357-2
CLTE - Flow	1.2E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+14	ohms	IEC 60093

Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Arc Resistance	185	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	36	%	ISO 4589-2
Additional Information	Nominal Value	Unit	Test Method
Fiber Content	9.0	%	ISO 1172
Material Designation	>UP-(MD+AF)91<		EN 14598-1
Injection	Nominal Value	Unit	
Mold Temperature	135 to 150	°C	
Injection Pressure	8.00 to 10.0	MPa	
NOTE			
1.	Post Molding Shrinkage		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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