Menzolit® BMC 2910

Thermoset Polyester

Menzolit Ltd (UK)

Message:

Menzolit® BMC 2910 is a bulk moulding compound based on unsaturated polyester resin. The product is glass fibre reinforced 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 2910 incorporates additives which enhance the integral performance of mouldings during and after fire, currently used to mould Boltcaps which are designed to provide protection to the bolted connections in structural steel frames of buildings in the event of fire.Boltcaps are designed to insulate the bolts from temperature of the fire (1000° C) and stop embrittlement and fracture resulting in building collapse.The boltcap also protects against a too rapid cooling and failure of the bolt due to quenching from Firemen's water hoses.

General Information			
Filler / Reinforcement	Glass\Mineral,13% Filler by Weight		
Features	Halogen Free Low Smoke Emission		
Appearance	Cream		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.95	g/cm³	ISO 1183
Molding Shrinkage			
-- [1]	0.0	%	DIN 53464
--	0.050	%	ISO 2577
Water Absorption (23°C, 24 hr)	< 0.50	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	13000	MPa	ISO 527-4
Tensile Stress (Break)	30.0	MPa	ISO 527-4
Flexural Modulus	11000	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 14125
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength	20	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	170	°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+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Flammability	**Nominal Value**	**Unit**	**Test Method**

Oxygen Index	27	%	ISO 4589-2
Additional Information	Nominal Value	Unit	Test Method
Fiber Content	13	%	ISO 1172
Material Designation	>UP-(MD+GF)88<		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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