

## Menzolit Menzolit<sup>®</sup> SMC 0430 Unsaturated Polyester UP

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass SMC

### Material Notes:

SMC 0430 is a low emission Class-A SMC for on-line painted exterior body applications on passenger cars. These compounds mould to parts with excellent surface quality for on-line painted body panels at high paint bake temperatures (190- 200 °C). The parts have to be primed with a conductive primer before e-coating. In addition to the excellent surface quality that these parts provide they also are designed with a special matrix that allows reduction of emissions, smell and fogging. Moulded parts comply with all regulations of the automotive industry including low C-emissions. Surface defects like waviness, fiber patterns and orange peel are not existent with this product. To achieve the highest surface quality, we recommend that tool surfaces are mirror polished. The excellent temperature resistance of Menzolit<sup>®</sup> SMC 0430 allows online painting at high bake temperatures (190- 200 °C). The parts show very good adhesion to paint or In Mould Coating (IMC). Information Provided by Menzolit

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Menzolit-Menzolit-SMC-0430-Unsaturated-Polyester-UP.php](http://www.lookpolymers.com/polymer_Menzolit-Menzolit-SMC-0430-Unsaturated-Polyester-UP.php)

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in <sup>3</sup>	ISO 1183
Water Absorption	<= 0.50 %	<= 0.50 %	ISO 62
Linear Mold Shrinkage	-0.000500 cm/cm	-0.000500 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	85.0 MPa @Temperature 22.0 °C	12300 psi @Temperature 71.6 °F	25mm flat samples, compression moulded; ISO 527-4
Tensile Strength, Yield	85.0 MPa @Temperature 22.0 °C	12300 psi @Temperature 71.6 °F	25mm flat samples, compression moulded; ISO 527-4
Elongation at Yield	1.3 %	1.3 %	tensile rupture strain; ISO 527-4
Modulus of Elasticity	9.00 GPa	1310 ksi	25mm flat samples, compression moulded; ISO 527-4
Flexural Strength	175 MPa @Temperature 22.0 °C	25400 psi @Temperature 71.6 °F	25 mm wide 100 mm long, flat samples; ISO 14125
Flexural Modulus	9.00 GPa @Temperature 22.0 °C	1310 ksi @Temperature 71.6 °F	25 mm wide 100 mm long, flat samples; ISO 14125
Compressive Yield Strength	180 MPa	26100 psi	ISO 14126

Poissons Ratio Mechanical Properties	0.30 Metric	0.30 English	Comments
Shear Modulus	3.50 GPa	508 ksi	in plane
Charpy Impact, Notched	6.60 J/cm <sup>2</sup>	31.4 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 Âµm/m-Â°C	5.56 Âµin/in-Â°F	ISO 11359-2
Specific Heat Capacity	1.10 J/g-Â°C	0.263 BTU/lb-Â°F	
Thermal Conductivity	0.700 W/m-K	4.86 BTU-in/hr-ft <sup>2</sup> - Â°F	
Maximum Service Temperature, Air	165 Â°C	329 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 200 Â°C	>= 392 Â°F	ISO 75-2
Minimum Service Temperature, Air	-40.0 Â°C	-40.0 Â°F	
Glass Transition Temp, Tg	200 Â°C	392 Â°F	ISO 11357-2
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
Oxygen Index	22 %	22 %	ISO 4589-2
Glow Wire Test	750 Â°C	1380 Â°F	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	4.0	4.0	IEC 60250
Dielectric Strength	24.0 kV/mm	610 kV/in	IEC 60243-1
Dissipation Factor	0.010	0.010	IEC 60250
Comparative Tracking Index	601 V	601 V	IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	145 - 155 Â°C	293 - 311 Â°F	Compression moulding, matched metal die

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