

CENTROPLAST CENTROSOL Acrylonitrile butadiene Styrene copolymer

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Extruded

Material Notes:

CENTROSOL ABS has high rigidity and hardness even at low temperatures. It is scratch resistant, non-toxic, with high surface resistance. It is used in operation components for electrical equipment and precision mechanics. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROSOL-Acrylonitrile-butadiene-Styrene-copolymer.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	1.0 %	1.0 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	114 @Thickness 10.0 mm	114 @Thickness 0.394 in	ISO 2039-2
Ball Indentation Hardness	98.0 MPa	14200 psi	value at 30 sec.; ISO 2039-1
Tensile Strength at Break	40.0 MPa	5800 psi	v = 5 mm/min; ISO 527-2
Tensile Strength, Yield	55.0 MPa	7980 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	5.0 %	5.0 %	ISO 527-2
Tensile Modulus	2.60 GPa	377 ksi	ISO 527-2
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	
Melting Point	235 °C	455 °F	10K/min; ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ISO 75-2
Vicat Softening Point	101 °C	214 °F	VST/B/50; ISO 306
Minimum Service Temperature, Air	-45.0 °C	-49.0 °F	

Thermal Properties	HB Metric	HB English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	2.6	2.6	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	18.0 kV/mm	457 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0080	0.0080	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

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