

CENTROPLAST CENTROLEN PE-HD Polyethylene high density

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded

Material Notes:

This material is a low density, easily machined plastic that can be welded and has good chemical resistance. Applications include apparatus engineering, and machines in the foodstuff industry. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROLEN-PE-HD-Polyethylene-high-density.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ISO 1183
Water Absorption at Saturation	0.010 %	0.010 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	50.0 MPa	7250 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	30.0 MPa	4350 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-2
Tensile Modulus	1.00 GPa	145 ksi	ISO 527-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	200 µm/m-°C	111 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.370 W/m-K	2.57 BTU-in/hr-ft ² -°F	
Melting Point	130 - 135 °C	266 - 275 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	80.0 °C	176 °F	Long Term
	120 °C	248 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	ISO 75-2
Vicat Softening Point	80.0 °C	176 °F	VST/B/50; ISO 306
Minimum Service Temperature, Air	-75.0 °C	-103 °F	
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

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

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	2.3	2.3	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	2.3	2.3	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	45.0 kV/mm	1140 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.00020	0.00020	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.00020	0.00020	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Food Compliance	yes	BGVV
	yes	FD A

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