

CENTROPLAST CENTROLEN PP-H Polypropylene homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Extrusion Grade

Material Notes:

This plastic is a low density, easily machined material that can be welded and has good chemical resistance. Applications include filter housings, chemical pump components and apparatus engineering. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROLEN-PP-H-Polypropylene-homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 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	67.0 MPa	9720 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	1.30 GPa	189 ksi	ISO 527-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	150 µm/m-°C	83.3 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°F	
Melting Point	165 °C	329 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	100 °C	212 °F	Long Term
	130 °C	266 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	54.0 °C	129 °F	ISO 75-2
Vicat Softening Point	90.0 °C	194 °F	VST/B/50; ISO 306
Minimum Service Temperature, Air	2.00 °C	35.6 °F	
Flammability, UL94	HB	HB	

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

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Food Compliance	yes	BGVV
	yes	FDA

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