

CENTROPLAST CENTROLAB HT Polypropylene Higher Temperatures

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

Material Notes:

PP-HT is a semi-crystalline plastic, with high acid and chemical resistance and mechanical strength. Due to its high resistance to temperature, PP-HT-plastics are often used in medical technology as sterilization boxes or for analysis devices. The BfR-/FDA approval, as well as the conformity in accordance with USP Class VI provide physiological safety. PP-HT is available in white. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROLAB-HT-Polypropylene-Higher-Temperatures.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength	33.0 MPa	4790 psi	50 mm/min; ISO 527-2
Elongation at Break	25 %	25 %	ISO 527-2
Tensile Modulus	1.40 GPa	203 ksi	ISO 527-2
Flexural Modulus	1.15 GPa	167 ksi	ISO 178
Charpy Impact Unnotched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	86.0 µm/m-°C	47.8 µin/in-°F	ISO 11359
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Melting Point	166 °C	331 °F	DSC, 10 K/m; ISO 3146
Maximum Service Temperature, Air	105 °C	221 °F	continuous
	140 °C	284 °F	short term
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ISO 75-2
Vicat Softening Point	98.0 °C	208 °F	VST/B/50; ISO 306
Minimum Service Temperature, Air	-30.0 °C	-22.0 °F	
Flammability, UL94	HB	HB	

Thermal Properties	@Thickness 3.00 - 6.00 Metric	@Thickness 0.118 - 0.236 in English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant	2.3 @Frequency 100 Hz	2.3 @Frequency 100 Hz	IEC 60250
Dielectric Strength	>= 80.0 kV/mm	>= 2030 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.00040 @Frequency 100 Hz	0.00040 @Frequency 100 Hz	IEC 60250
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

Descriptive Properties	Value	Comments
Color	White	
Food Compliance BfR:	Yes	
Food Compliance FDA	Yes	

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