

Westlake Plastics Propylux® HS Polypropylene-heat stabilized For Medical Applications

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Medical grade Propylux HS is made from an FDA approved polypropylene resin. Through a unique heat-stabilizing process, the extruded material is able to withstand higher temperature with less water absorption than standard propylene. Recommended sterilization techniques for Propylux HS include steam autoclaving and cold sterilization. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Propylux-HS-Polypropylene-heat-stabilized-For-Medical-Applications.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D792
Water Absorption	0.025 %	0.025 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	101	101	ASTM D785
Tensile Strength at Break	30.1 MPa	4360 psi	ASTM D638
Tensile Strength, Yield	36.6 MPa	5310 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Tensile Modulus	2.20 GPa	319 ksi	ASTM D638
Flexural Strength	63.9 MPa	9270 psi	ASTM D790
Flexural Modulus	2.16 GPa	313 ksi	ASTM D790
Compressive Yield Strength	55.2 MPa	8000 psi	ASTM D695
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.2 J/cm	21.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	82.8 µm/m-°C	46.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	152 °C	305 °F	ASTM D648
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	80.0 °C Metric	176 °F English	ASTM D648 Comments
Flammability, UL94	HB	HB	

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