

Westlake Plastics Propylux® HS2 Polypropylene for Medical Applications, Heat Stabilized

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Through process improvement and advanced engineering, Westlake Plastics introduces the next generation of heat-stabilized polypropylene. Propylux HS2 is produced from a FDA and USP Class VI approved homopolymer resin, and exhibits better heat and dimensional stability over Propylux HS. Recommended sterilization techniques for Propylux HS2 include steam autoclaving and cold sterilization. Applications Include: Provisional trials Cranio-maxillofacial trays Sterilization tray components Advantages of Medical Grade Propylux HS2: Excellent chemical resistance Laser markable Lot controlled and traceable Low moisture absorption FDA resin Superior dimensional stability Information provided by Westlake Plastics Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Propylux-HS2-Polypropylene-for-Medical-Applications-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 g/cc	ASTM D792
Water Absorption	0.010 %	0.010 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength at Break	29.2 MPa	4230 psi	ASTM D638
Tensile Strength, Yield	34.3 MPa	4970 psi	ASTM D638
Elongation at Break	70 %	70 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Tensile Modulus	2.20 GPa	319 ksi	ASTM D638
Flexural Strength	64.6 MPa	9370 psi	ASTM D790
Flexural Modulus	2.27 GPa	329 ksi	ASTM D790
Compressive Yield Strength	47.4 MPa	6880 psi	ASTM D695
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	78.7 µm/m-°C	43.7 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa			ASTM D648

(56 psi) Thermal Properties	154 °C Metric	309 °F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	93.9 °C	201 °F	ASTM D648
Flammability, UL94	HB	HB	

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