

Propylux® HS2

Polypropylene
Westlake Plastics Company

Message:

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.

- Advantages:
- Excellent Chemical Resistance
 - Laser Markable
 - Lot controlled and traceable
 - Low Moisture Absorption
 - FDA Resin
 - Superior Dimensional Stability
- Applications:
- Provisional Trials
 - Cranio-maxillofacial trays
 - Sterilization tray components

General Information			
Additive	Heat Stabilizer		
Features	Autoclavable		
	Autoclave Sterilizable		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Heat Stabilized		
	Laser Markable		
	Low Moisture Absorption		
	Steam Resistant		
	Steam Sterilizable		
Agency Ratings	FDA Unspecified Rating		
	USP Class VI		
Appearance	White		
Forms	Rod		
	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	2200	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	34.3	MPa	
Break	29.2	MPa	
Tensile Elongation			ASTM D638
Yield	5.0	%	
Break	70	%	
Flexural Modulus	2270	MPa	ASTM D790
Flexural Strength	64.6	MPa	ASTM D790
Compressive Strength	47.4	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	160	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	154	°C	
1.8 MPa, Unannealed	93.9	°C	
CLTE - Flow	7.9E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94

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