

# STYRON A-TECH™ 1300

Polystyrene Resin

Trinseo

Message:

STYRON A-TECH™ 1300 advanced technology polystyrene resin is a high impact polystyrene resin offering excellent toughness and strength with good processability.

Main Characteristics:

- Excellent toughness
- High strength
- Easy processing
- Gas-assist molding
- High heat

Applications:

- TV
- Printers
- Audio enclosures
- Small appliances

Complies with:

- U.S. FDA 21 CFR 177.1640

Consult the regulation for complete details.

General Information			
UL YellowCard	E73656-249606		
Features	Good Processability		
	Good Toughness		
	High Heat Resistance		
	High Impact Resistance		
	High Strength		
Uses	Appliances		
	Business Equipment		
	Housings		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	24.1	MPa	
Yield, Injection Molded	27.6	MPa	
Break, Compression Molded	19.3	MPa	

Break, Injection Molded	27.6	MPa	
Tensile Elongation			ASTM D638
Break, Compression Molded	45	%	
Break, Injection Molded	50	%	
Flexural Modulus			ASTM D790
Compression Molded	1800	MPa	
Injection Molded	2010	MPa	
Flexural Strength			ASTM D790
Compression Molded	42.1	MPa	
Injection Molded	50.3	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, Compression Molded	110	J/m	
23°C, Injection Molded	130	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	75.0	°C	
1.8 MPa, Annealed	98.9	°C	
Vicat Softening Temperature	105	°C	ASTM D1525
CLTE - Flow	7.6E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating <sup>1</sup> (1.50 mm)	HB		UL 94
NOTE			

1.

This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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