

STYRON™ H9152T

High Impact Polystyrene Resin

Trinseo

Message:

STYRON™ H9152T is a high-impact polystyrene with excellent balance of flow, toughness, stiffness and heat resistance. It is designed for injection molding applications.

Main Characteristics:

High heat

Good balance of toughness and stiffness

Applications:

Printers

Food Containers

Household Goods

Complies with

U.S. FDA 21 CFR 177.1640

Consult Regulations for complete details.

General Information			
UL YellowCard	E73656-586785		
Features	Food Contact Acceptable		
	Good Stiffness		
	Good Toughness		
	High Heat Resistance		
	High Impact Resistance		
Uses	Business Equipment		
	Containers		
	Household Goods		
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 ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	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, Injection Molded	33.1	MPa	
Break, Compression Molded	20.7	MPa	
Break, Injection Molded	30.3	MPa	
Tensile Elongation			ASTM D638
Break, Compression Molded	35	%	
Break, Injection Molded	40	%	

Flexural Modulus			ASTM D790
Compression Molded	2460	MPa	
Injection Molded	2560	MPa	
Flexural Strength			ASTM D790
Compression Molded	49.6	MPa	
Injection Molded	58.6	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, Compression Molded	75	J/m	
23°C, Injection Molded	91	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	77.2	°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 ¹ (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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