

STYRON™ 470

High Impact Polystyrene Resin

Trinseo

Message:

STYRON™ 470 is a high-impact polystyrene resin with an excellent balance of toughness, stiffness, flow and heat resistance. It is suitable for both injection molding and extrusion applications.

Main Characteristics:

Good practical toughness

Easy processing

Complies with:

U.S. FDA 21 CFR 177.1640

Consult the regulations for complete details.

Applications:

Audio enclosures

Media enclosures

Toys

Food containers

General Information			
UL YellowCard	E73656-249584		
Features	Food Contact Acceptable		
	Good Processability		
	Good Stiffness		
	Good Toughness		
	High Heat Resistance		
	High Impact Resistance		
Uses	Containers		
	Housings		
	Toys		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Extrusion		
	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)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	2100	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, Injection Molded	25.5	MPa	

Ultimate, Injection Molded	26.2	MPa	
Tensile Elongation (Break, Injection Molded)	50	%	ASTM D638
Flexural Modulus (Injection Molded)	2160	MPa	ASTM D790
Flexural Strength			ASTM D790
Yield, Compression Molded	40.0	MPa	
Yield, Injection Molded	49.0	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	73.9	°C	
1.8 MPa, Annealed	97.2	°C	
Vicat Softening Temperature	102	°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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