

STYRON™ 680A

General Purpose Polystyrene Resin

Trinseo

Message:

STYRON™ 680A is a general purpose polystyrene resin with good balance of processability and high heat properties. It is designed for general injection molding applications.

Main Characteristics:

- Easy processing
- High heat

Applications:

- Cutlery
- Cassettes
- Decorative lighting
- Blending with HIPS

Complies with:

- FDA, 21 CFR 177.1640

Consult the regulation for complete details.

General Information			
UL YellowCard	E73656-249600		
Features	Good Processability		
	High Heat Resistance		
Uses	Blending		
	General Purpose		
	Lighting Applications		
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)	8.5	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	40.0	MPa	
Yield, Injection Molded	46.9	MPa	
Ultimate, Compression Molded	40.0	MPa	
Ultimate, Injection Molded	46.9	MPa	
Tensile Elongation			ASTM D638
Break, Compression Molded	1.0	%	
Break, Injection Molded	2.0	%	
Flexural Modulus			ASTM D790

Compression Molded	3100	MPa	
Injection Molded	3190	MPa	
Flexural Strength			ASTM D790
Compression Molded	56.5	MPa	
Injection Molded	89.6	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
Compression Molded	11	J/m	
Injection Molded	16	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	82.8	°C	
1.8 MPa, Annealed	102	°C	
Vicat Softening Temperature	105	°C	ASTM D1525
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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