

STYRON™ 666H

General Purpose Polystyrene Resin

Trinseo

Message:

STYRON™ 666H is a general purpose polystyrene with easy flow and good clarity. It is recommended for applications where a specific balance of flow and strength are important.

Applications:

Media enclosures

Disposable cups

Blending with HIPS

Complies with:

U.S. FDA 21 CFR 177.1640

Consult the regulation for complete details.

General Information	
UL YellowCard	E73656-249599
Features	Good Flow
	Good Strength
	High Clarity
Uses	Blending
	General Purpose
	Housings
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)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
Compression Molded	3200	MPa	
Injection Molded	3300	MPa	
Tensile Strength			ASTM D638
Yield, Compression Molded	40.0	MPa	
Yield, Injection Molded	47.6	MPa	
Ultimate, Compression Molded	40.0	MPa	
Ultimate, Injection Molded	47.6	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	3240	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
23°C, Compression Molded	11	J/m	
23°C, Injection Molded	16	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	76.1	°C	
1.8 MPa, Annealed	93.9	°C	
Vicat Softening Temperature	99.0	°C	ASTM D1525
CLTE - Flow	7.6E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating ¹ (1.47 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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