

STYRON™ 656D

General Purpose Polystyrene Resin

Trinseo

Message:

STYRON™ 656D 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

Europe REGULATION (EC) 10/2011

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	EU No 10/2011
	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)	8.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	47.6	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	2.0	%	ASTM D638
Flexural Modulus (Injection Molded)	3240	MPa	ASTM D790
Flexural Strength (Injection Molded)	86.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, Injection Molded)	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	76.1	°C	
1.8 MPa, Annealed	95.0	°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 (1.50 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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