

STYRON™ 670

General Purpose Polystyrene Resin
Trinseo

Message:

STYRON™ 670 is a general purpose polystyrene with good processability. It is designed for foam board application.

Main Characteristics:

Easy processing

U.S. FDA 21 CFR 177.1640

Consult Regulations for details.

Applications:

Foam board applications

General Information			
Features	Good Processability		
Uses	General Purpose		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
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 Modulus (Injection Molded)	3300	MPa	ASTM D638
Tensile Strength (Yield, Injection Molded)	51.0	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	2.0	%	ASTM D638
Flexural Modulus (Injection Molded)	3300	MPa	ASTM D790
Flexural Strength (Injection Molded)	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	82.0	°C	
1.8 MPa, Annealed	94.0	°C	
Vicat Softening Temperature	103	°C	ASTM D1525
CLTE - Flow	7.6E-5	cm/cm/°C	ASTM D696

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