



TECHNICAL DATASHEET

PS 160

GENERAL PURPOSE POLYSTYRENE FOR FOAM EXTRUSION

DESCRIPTION

General purpose Polystyrene PS 160 is manufactured by continuous mass polymerization of styrene monomer. It is a crystal-like, hard and brittle material having High molecular weight imparting high tensile strength to end- products. It has high vicat and heat deflection temperatures.

TYPICAL PROPERTY VALUES

Revision
20211207

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
@ 200°C & 5 kg ⁽¹⁾	3.3	g/10 min	ASTM D1238
Load Density@ 23°C	1050	kg/m ³	ASTM D792
Bulk Density (Method B)	600	kg/m ³	ASTM D1895
MECHANICAL PROPERTIES			
Tensile Strength ⁽²⁾	51	MPa	ASTM D638
Tensile Elongation	2	%	ASTM D638
Flexural Modulus	3627	MPa	ASTM D790
Flexural Strength	95	MPa	ASTM D790
Izod impact notched at 23 °C	20	J/m	ASTM D256A
Rockwell Hardness			
L-Scale	92	-	ASTM D785
M-Scale	58	-	ASTM D785
Tensile modulus	2990	MPa	ASTM D638
THERMAL PROPERTIES			
Vicat Softening Point, (Rate A/50°C)	104	°C	ASTM D1525
Heat Deflection Temperature (Method B, 455 KPa, Annealed)100		°C	ASTM D648
Flammability Rating, UL 94			
@ 1.3 mm and 3 mm (natural color) ⁽¹⁾	HB	Rate	-



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