



# TECHNICAL DATASHEET

## PS 155

GENERAL PURPOSE POLYSTYRENE FOR FOAM EXTRUSION

### DESCRIPTION

General purpose Polystyrene PS 155 is manufactured by continuous mass polymerization of styrene monomer. It is a crystal-like, hard and brittle polymer with medium flow and good tensile and flexural strength. It has high vicat and heat deflection temperatures.

### TYPICAL PROPERTY VALUES

Revision 20211207

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Melt Flow Rate (MFR)			
@ 200°C & 5 kg <sup>(1)</sup>	7	g/10 min	ASTM D1238
Load Density@ 23°C	1050	kg/m <sup>3</sup>	ASTM D792
Bulk Density (Method B)	600	kg/m <sup>3</sup>	ASTM D1895
<b>MECHANICAL PROPERTIES</b>			
Tensile Strength	45	MPa	ASTM D638
Tensile Elongation	2	%	ASTM D638
Tensile modulus	2990	MPa	ASTM D638
Flexural Strength	66	MPa	ASTM D790
Flexural Modulus	3627	MPa	ASTM D790
Izod impact notched at 23 °C	16	J/m	ASTM D256A
Rockwell Hardness			
L-Scale <sup>(2)</sup>	93	-	ASTM D785
M-Scale	60	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
Vicat Softening Point, (Rate A/50°C)	102	°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) <sup>(4)</sup>	MB	Rate	-



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