

# AMERICOLENE® PS 155-GPE

**AMERICOLENE**

## 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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
@ 200°C & 5 kg (¹)	7	g/10 min	ASTM D1238
<b>Load Density@ 23°C</b>	1050	kg/m³	ASTM D792
<b>Bulk Density (Method B)</b>	600	kg/m³	ASTM D1895
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile Strength</b>	45	MPa	ASTM D638
<b>Tensile Elongation</b>	2	%	ASTM D638
<b>Tensile modulus</b>	2990	MPa	ASTM D638
<b>Flexural Strength</b>	66	MPa	ASTM D790
<b>Flexural Modulus</b>	3627	MPa	ASTM D790
<b>Izod impact notched at 23 °C</b>	16	J/m	ASTM D256A
<b>Rockwell Hardness</b>			
L-Scale (²)	93	-	ASTM D785
M-Scale	60	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Point, (Rate A/50°C)</b>	102	°C	ASTM D1525
<b>Heat Deflection Temperature (Method B, 455 KPa, Annealed)</b>	100	°C	ASTM D648
<b>Flammability Rating, UL 94</b>			
@ 1.3 mm and 3 mm (natural color) (¹)	MB	Rate	-

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