

# AMERICOLENE® PS 125-GPI

**AMERICOLENE**

## GENERAL PURPOSE POLYSTYRENE FOR INJECTION MOLDING

### DESCRIPTION

125 is general purpose Polystyrene manufactured by continuous mass polymerization of styrene monomer. It is a crystal-like, hard and brittle polymer with medium flow and high clarity. It also has medium vicat and heat deflection temperatures and makes it suitable for various applications.

### TYPICAL APPLICATIONS

125 is recommended for packaging items, namely jewelry and gift boxes; medical supplies such as Petri dishes, test tubes holders and specimen jars. It can also be used in capping the high impact polystyrene coextruded sheet for higher surface gloss and can be blended with impact modifier resin for clear packaging articles.

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>PHYSICAL</b>			
Melt Flow Rate, 230°C/2.16 kgf (¹)	9	g/10 min	ASTM D1238
<b>POLYMER PROPERTIES</b>			
Load Density@ 23°C	1050	kg/m³	ASTM D792
Bulk Density (Method B)	600	kg/m³	ASTM D1895
<b>MECHANICAL PROPERTIES</b>			
Tensile Strength	43	MPa	ASTM D638
Tensile Elongation	2	%	ASTM D638
Tensile modulus	2598	MPa	ASTM D638
Flexural Strength	82	MPa	ASTM D790
Flexural Modulus	3529	MPa	ASTM D790
Izod impact notched at 23 °C	12	J/m	ASTM D256A
Rockwell Hardness, L-Scale	95	-	ASTM D785
M-Scale (²)	63	-	ASTM D785
<b>THERMAL PROPERTIES</b>			
<b>Flammability Rating, UL 94</b>			
@ 1.3 mm and 3 mm (natural color)	HB	Class	-
Vicat Softening Point, (Rate A/50°C)	98	°C	ASTM D1525
Heat Deflection Temperature (Method B, 455 KPa, Annealed)	93	°C	ASTM D648

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