

# Polyintec ® PS155-EPG

## General Purpose Polystyrene for Foam Extrusion

### **Product Description:**

Polyintec® PS155-EPG is a general-purpose polystyrene manufactured by continuous mass polymerization of styrene monomer. Designed for foam extrusion applications, it is a crystal-like, hard, and brittle polymer characterized by medium flow, good tensile and flexural strength. It exhibits high Vicat softening and heat deflection temperatures.

### **Suggested Applications:**

Foam extrusion.

### **Nominal Physical Properties:**

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)	7	g/10 min	ASTM D1238
@ 200°C & 5 kg			
Load Density @ 23°C	1050	kg/m ³	ASTM D792
Bulk Density (Method B)	600	kg/m ³	ASTM D1895
MECHANICAL PROPERTIES			
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 @ 23°C	16	J/m	ASTM D256A
Rockwell Hardness	93	L-Scale	ASTM D785
Rockwell Hardness	60	M-Scale	ASTM D785
THERMAL PROPERTIES			
Vicat Softening Point	102	°C	ASTM D1525
(Rate A/50°C)			
Heat Deflection Temp.	100	°C	ASTM D648
(Method B, 455 KPa, Ann.)			
Flammability Rating, UL 94	НВ	@ 1.3 & 3 mm	UL 94

#### **Important Note:**

The properties listed above are typical values obtained under laboratory conditions and are not intended to be used as specifications. Test conditions: MFR was determined at 200°C with a 5 kg load. Heat Deflection Temperature was measured using Method B at 455 KPa on annealed samples. Flammability rating is for the natural color of the material.