

## SABIC PS 155 General Purpose Polystyrene for Foam Extrusion

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Extrusion Grade

### Material Notes:

**Product 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 also has high Vicat and heat deflection temperatures. **Typical Applications:** It is recommended for extrusion purposes. It can be used for foam extrusion application such as building insulation. Information provided by SABIC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-PS-155-General-Purpose-Polystyrene-for-Foam-Extrusion.php](http://www.lookpolymers.com/polymer_SABIC-PS-155-General-Purpose-Polystyrene-for-Foam-Extrusion.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in <sup>3</sup>	ASTM D1895B
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	Load Density; ASTM D792
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	93	93	ASTM D785
Hardness, Rockwell M	60	60	ASTM D785
Tensile Strength at Break	45.0 MPa	6530 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	2.99 GPa	434 ksi	ASTM D638
Flexural Strength	66.0 MPa	9570 psi	ASTM D790
Flexural Modulus	3.627 GPa	526.1 ksi	ASTM D790
Izod Impact, Notched	0.160 J/cm	0.300 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ASTM D648
Vicat Softening Point	102 °C @Load 1.00 kg	216 °F @Load 2.20 lb	ASTM D1525B
Flammability, UL94	HB @Thickness 1.30 mm	HB @Thickness 0.0512 in	

Thermal Properties	Metric	English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	

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