

## SABIC PS 160 General Purpose Polystyrene for Foam Extrusion

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

### Material Notes:

**Product Description:** General purpose Polystyrene PS 160 is manufactured by continuous mass polymerization of styrene monomer. It is a crystal-like, hard and brittle material having High molecular weight, imparting high tensile strength to end-products. It also has high Vicat and heat deflection temperatures. **Typical Applications:** It is recommended for foam extrusion for egg cartons, clam-shell and for building insulation boards. It is also recommended for cookie and cake trays that require good organoleptic properties and can also be used for oriented polystyrene packaging products, artificial timber and light diffusers. Information provided by SABIC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-PS-160-General-Purpose-Polystyrene-for-Foam-Extrusion.php](http://www.lookpolymers.com/polymer_SABIC-PS-160-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	3.3 g/10 min @Load 2.16 kg, Temperature 230 °C	3.3 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	92	92	ASTM D785
Hardness, Rockwell M	58	58	ASTM D785
Tensile Strength at Break	51.0 MPa	7400 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	2.99 GPa	434 ksi	ASTM D638
Flexural Strength	95.0 MPa	13800 psi	ASTM D790
Flexural Modulus	3.627 GPa	526.1 ksi	ASTM D790
Izod Impact, Notched	0.200 J/cm	0.375 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	104 °C @Load 1.00 kg	219 °F @Load 2.20 lb	ASTM D1525B
	HB	HB	

Thermal Properties		Metric	English	Comments
		@ Thickness 1.30 mm	@ Thickness 0.0512 in	
		HB	HB	
		@Thickness 3.00 mm	@Thickness 0.118 in	

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