

Axion Polymers Axpoly® PS02 1000 General Purpose Polystyrene

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

PS02 Series polystyrenes offer the designer and processor a high performance polymer with well-defined properties in a range of options to suit many applications. The Axpoly® PS02 range of resin compounds are processed to a high purity and give consistent material properties during injection molding and sheet extrusion. Produced from 100% post-consumer raw materials, this product fits closely with Axion's other recycled resin grades and offers the same set of user benefits, including: Successfully replaces virgin resin Huge savings in CO2 impact Appeals to 'greener' customers Cost-down on raw material Information provided by Axion Recycling

Order this product through the following link:

http://www.lookpolymers.com/polymer_Axion-Polymers-Axpoly-PS02-1000-General-Purpose-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	Typical; ISO 1183-1
	1.02 - 1.06 g/cc	0.0368 - 0.0383 lb/in ³	Spec; ISO 1183-1
Particle Size	2000 - 4000 µm	2000 - 4000 µm	Pellet Size
	3000 µm	3000 µm	Typical
Melt Index of Compound	5.0 - 9.0 g/10 min	5.0 - 9.0 g/10 min	Spec
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	7.0 g/10 min	7.0 g/10 min	Typical
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	18.0 - 27.0 MPa	2610 - 3920 psi	Spec; ISO 527-1/2
	23.0 MPa	3340 psi	Typical; ISO 527-1/2
Elongation at Break	35 %	35 %	Typical; ISO 527 - 1/2
	25 - 50 %	25 - 50 %	Spec; ISO 527 - 1/2
Izod Impact, Unnotched (ISO)	6.00 - 10.0 kJ/m ²	2.86 - 4.76 ft-lb/in ²	Spec; ISO 180
	8.00 kJ/m ²	3.81 ft-lb/in ²	Typical; ISO 180

Processing Properties	Metric	English	Comments
Moisture Content	0.17 %	0.17 %	Typical
	<= 0.25 %	<= 0.25 %	Spec

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