

Axion Polymers Axpoly® PS01 Impact Modified Polystyrene

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

100% post-consumer recycled polymer (recovered from refrigerators)93% less CO2 impact compared with virgin*Successfully replaces virgin grade resinISO9000 quality certifiedAvailable in a range of colorsCost savings compared with virgin polymer gradesPrevious applications include washing machine parts, horticultural pots, and television partsInformation provided by Axion Recycling

Order this product through the following link:

http://www.lookpolymers.com/polymer_Axion-Polymers-Axpoly-PS01-Impact-Modified-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.03 - 1.05 g/cc	0.0372 - 0.0379 lb/in³	Typical; ISO 1183-1
	1.03 - 1.06 g/cc	0.0372 - 0.0383 lb/in³	Spec; ISO 1183-1
Particle Size	2000 - 4000 µm	2000 - 4000 µm	Pellet Size
	3000 µm	3000 µm	Typical
Melt Index of Compound	6.0 g/10 min	6.0 g/10 min	Typical
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	5.0 - 8.0 g/10 min	5.0 - 8.0 g/10 min	Spec
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	15.0 - 25.0 MPa	2180 - 3630 psi	Spec; ISO 527-1/2
	21.0 - 22.0 MPa	3050 - 3190 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/m²	2.86 - 4.76 ft-lb/in²	Spec; ISO 180
	8.00 kJ/m²	3.81 ft-lb/in²	Typical; ISO 180

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

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