

AXPOLY®

PS02 1000 Impact Modified Polystyrene

Description:

High quality polymer resin for use in injection moulding or sheet extrusion applications. The very consistent and reliable physical properties of this black, impact resistant plastic make it the primary choice of leading manufacturers when replacing virgin material in consumer goods.

Source:

Unique separation and sorting technologies allows Axpoly® PS02 resin to be produced from post-consumer TV casings sourced from primary WEEE treatment plants. All production batches are traceable back to the origin of the raw material as part of the certified manufacturing process.

Quality Control:

Every tonne of every batch is made under our strict ISO9001 QC system to ensure that customers are confident about the reliable and consistent performance of the polymer during thermoforming and moulding operations. Customer feedback confirms that end products are 'better than virgin' in many aspects, such as dimensional stability, surface finish and price per mould impression.

Environment:

Produced from 100% post-consumer raw materials, this product fits closely with our other Axpoly® recycled resin grades. Brominated flame retardants are removed as part of the refining process to deliver a high-purity RoHS compliant raw material. PS02 offers the following user benefits:

- Successfully replaces virgin resin
- Huge savings in CO₂ impact - at least 80% less
- Appeals to 'greener' customers
- Cost-down on raw material
- Saves the Planet!

Axpoly® is available in 1 tonne polyester big bags on a pallet, other formats possible on request.

Axion Polymers

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Notes: All grades are assessed to ISO standards, are RoHS compliant and REACH ready



PARAMETER	ISO	SPEC		TYPICAL PROPERTIES
		Min	Max	
MFI (5 kg @ 200°C)	1133	5	9	7 g / 10 mins
Density	1183-1	1.02	1.06	1.03 g / cm ³
Tensile Strength	527 - 1/2	18	27	23 MPa
Impact Strength	180	8	12	10 kj / m ²
Moisture Content	%	<0.25%		0.17%
Elongation @ break	527 - 1/2	25%	50%	35%
Br level	ppm	< 3000		1000s
Pellet Size	mm	2mm	4mm	3mm

