

Technical Data Sheet

HP510L

Polypropylene, Homopolymer



Product Description

AGIPC HP510L is a Polypropylene Homopolymer with a Melt Flow Rate (MFR) suitable especially for the extrusion of filament yarns, monofilaments, flat films, and sheets. This grade offers excellent processability and good mechanical properties. The filament yarns produced from it are used for packaging ropes and twines. Furthermore, this grade is highly suitable for producing monofilaments used in toothbrushes, brushes, brooms, and specialized applications.

Processing Method

Cast Film ; Injection Molding; Monofilament

Additive

Anti Oxidant: Irganox 1010 (600 ppm), Irgafos 168 (1200 ppm); Acid Scavenger: Ca Stearate (500 ppm)

Application

Filament Yarn; Monofilaments; Filament; Thin Gauge Sheet; Toys; Sacks; Fertilizer Sacks

Typical Properties	Value	Unit	Test Method
Physical			
Density	0.9	g/cm ³	ASTM D1505
MFR (2.16 kg, 230 °C)	6	g/10 min	ASTM D1238
Mechanical			
Flexural Modulus (1% Secant)	1250	MPa	ASTM D790
Tensile Strength at Break (Type 1, 23 °C, 50 mm/min)	22	MPa	ASTM D638
Tensile Strength at Yield (Type 1, 23 °C, 50 mm/min)	35	MPa	ASTM D638
Tensile Elongation at Yield (Type 1, 23 °C, 50 mm/min)	12	%	ASTM D638
Tensile Elongation at Break (Type 1, 23 °C, 50 mm/min)	> 300	%	ASTM D638
Rockwell Hardness (R Scale)	90		ASTM D785
Izod Impact Strength (Notched, 23 °C)	25	J/m	ASTM D256
Thermal			
Heat Deflection Temperature (Unannealed, 0.46 MPa)	94	°C	ASTM D648
Vicat Softening Temperature (10 N, 50 °C/h)	154	°C	ASTM D1525

Packaging

Product is supplied in 25 kg small bags & 1000 kg big bags (jumbo bags) . Small bags is secured with stretch hood protection for maximum integrity during storage and transit.

Storage

For optimal shelf life, store in covered warehouses away from sunlight, dust, and humidity.

Disclaimer

"The technical information and data provided in this data sheet are given in good faith based on our current knowledge. However, this information is intended for guidance only and does not constitute a guarantee of specific properties under various application conditions. It is the buyer's responsibility to determine the product's suitability for the intended use and comply with all relevant regulations. We recommend consulting with our technical experts before purchasing and using the product to ensure its suitability for your specific requirements."