

SABIC PP 510P Polypropylene Homopolymer for Fiber Applications

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Fiber Grade

Material Notes:

Product Description: PP 510P is a homopolymer specially designed for fiber extrusion applications with the following features: Consistent processability Good thread line stability Good color consistency Good gas fading resistance

Typical Applications: PP 510P can be used for medium spin equipment for producing staple fiber of 6 dtex and higher. It can also be used for the production of continuous filament for stitching yarn.

Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-PP-510P-Polypropylene-Homopolymer-for-Fiber-Applications.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ASTM D792
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	104	104	ASTM D785
Tensile Strength, Yield	36.0 MPa	5220 psi	ASTM D638
Elongation at Yield	11 %	11 %	ASTM D638
Flexural Modulus, 1% Secant	1530 MPa	222000 psi	ASTM D790A
Izod Impact, Notched	0.220 J/cm	0.412 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	104 °C	219 °F	ASTM D648
Vicat Softening Point	153 °C	307 °F	ASTM D1525B

Processing Properties	Metric	English	Comments
Processing Temperature	210 - 240 °C	410 - 464 °F	Barrel Temperature

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