

Braskem AC59 HDPE Monofilament Polyethylene Homopolymer

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , HDPE, Fiber Grade

Material Notes:

AC59 resin is a high-density polyethylene homopolymer produced by the solution process and designed for monofilament applications. It contains antioxidant additives. Its applications include: film extrusion, monofilament, raffia, raschel, nets, oriented structures, and general use. Processing Conditions for Oriented Structures: cast film - typical temperature profile: 170 to 220°C; blown film - typical temperature profile: 170 to 220°C; monofilament - typical temperature profile: 170 to 220°C. Typical Stretch Ratio: 4 to 8:1.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-AC59-HDPE-Monofilament-Polyethylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ASTM-D792
Melt Flow	0.75 g/10 min @Load 2.16 kg, Temperature 190 °C	0.75 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	ASTM-D2240
Tensile Strength at Break	35.0 MPa	5080 psi	ASTM-D638
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM-D638
Elongation at Break	2036 %	2036 %	ASTM-D638
Elongation at Yield	11 %	11 %	ASTM-D638
Flexural Modulus, 1% Secant	1180 MPa	171000 psi	ASTM-D790
Izod Impact, Notched	1.75 J/cm	3.28 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.0 °C	162 °F	ASTM-D648
Vicat Softening Point	127 °C @Load 1.02 kg	261 °F @Load 2.25 lb	ASTM-D1525

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