Braskem AD57 HDPE Monofilament Polyethylene Copolymer

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

Material Notes:

AD57 resin is a high-density polyethylene, copolymer of butene-1, produced by the solution process, designed for raffia extrusion, and Raschel knitted with excellent optical and mechanical properties, associated with good processability. It contains antioxidant additives. Its applications include: Raschel knitted, raffia extrusion, tarpaulin, general use, monofilaments, and oriented structures. Processing Conditions for Oriented Structures: cast film - typical temperature profile: 190 to 230°C; blown film - typical temperature profile: 190 to 215°C; monofilament - typical temperature profile: 190 to 230°C. Typical Stretch Ratio: 6 to 8:1.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Braskem-AD57-HDPE-Monofilament-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.951 g/cc	0.0344 lb/in³	ASTM-D792
Melt Flow	0.60 g/10 min @Load 2.16 kg, Temperature 190 °C	0.60 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	56	56	ASTM-D2240
Tensile Strength at Break	35.0 MPa	5080 psi	ASTM-D638
Tensile Strength, Yield	25.0 MPa	3630 psi	ASTM-D638
Elongation at Break	2044 %	2044 %	ASTM-D638
Elongation at Yield	12 %	12 %	ASTM-D638
Flexural Modulus, 1% Secant	980 MPa	142000 psi	ASTM-D790
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	66.0 °C	151 °F	ASTM-D648
Vicat Softening Point	125 °C @Load 1.02 kg	257 °F @Load 2.25 lb	ASTM-D1525

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