

Braskem HD3000N HDPE Cast Film Extrusion Polyethylene Homopolymer

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Film Grade

Material Notes:

HD3000N is a high-density polyethylene, narrow molecular weight homopolymer produced by the solution process for cast film extrusion. It offers high processability, stiffness, and good impact resistance. It contains a phenol free antioxidant additive. Its applications include cast film extrusion for diapers, hygienic absorbers, and other specialties. HD3000N is indicated for processing in a plain die extruding machine in conditions that are similar to the other types of high-density polyethylene of equivalent melt index and density. Recommended temperature range: 250 to 290 °C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-HD3000N-HDPE-Cast-Film-Extrusion-Polyethylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ASTM-D792
Melt Flow	7.3 g/10 min @Load 2.16 kg, Temperature 190 °C	7.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	770 %	770 %	ASTM-D882
Film Elongation at Break, TD	380 %	380 %	ASTM-D882
Elmendorf Tear Strength MD	5.0 g	5.0 g	ASTM-D1922
Elmendorf Tear Strength TD	10 g	10 g	ASTM-D1922
Film Tensile Strength at Break, MD	25.0 MPa	3630 psi	ASTM-D882
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ASTM-D882
1% Secant Modulus, MD	710 MPa	103000 psi	ASTM-D882
1% Secant Modulus, TD	790 MPa	115000 psi	ASTM-D882

Optical Properties	Metric	English	Comments
Haze	47 %	47 %	ASTM-D1003
Gloss	52 %	52 %	Angle 60°; ASTM-D2457

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