

Braskem TX7012 LDPE Blown Film Extrusion Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

Material Notes:

TX7012 is a low-density polyethylene (LDPE) with medium molecular weight and good processability in traditional extruders with good mechanical properties and productivity, ensuring uniform thickness even for very thin structures. It does not contain additives. This product is identified as PE 113 according to ASTM D-4976-04a standard specification. Its applications include medium duty film for general purpose films and medium duty shrink films.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-TX7012-LDPE-Blown-Film-Extrusion-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ASTM-D792
Melt Flow	1.2 g/10 min @Load 2.16 kg, Temperature 190 °C	1.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	350 %	350 %	ASTM-D882
Film Elongation at Break, TD	680 %	680 %	ASTM-D882
Secant Modulus, MD	0.120 GPa	17.4 ksi	2% Secant Modulus; ASTM-D882
Secant Modulus, TD	0.140 GPa	20.3 ksi	2% Secant Modulus; ASTM-D882
Elmendorf Tear Strength MD	360 g	360 g	ASTM-D1922
Elmendorf Tear Strength TD	260 g	260 g	ASTM-D1922
Elmendorf Tear Strength, MD	7.20 g/micron	183 g/mil	ASTM-D1922
Elmendorf Tear Strength, TD	5.20 g/micron	132 g/mil	ASTM-D1922
Dart Drop	3.20 g/micron	81.3 g/mil	ASTM-D1709
Dart Drop Test	160 g	0.353 lb	ASTM-D1709
Film Tensile Strength at Break, MD	23.0 MPa	3340 psi	ASTM-D882
Film Tensile Strength at Break, TD	21.0 MPa	3050 psi	ASTM-D882

Optical Properties	Metric	English	Comments
Haze	8.5 %	8.5 %	ASTM-D1003
Gloss	60 %	60 %	Angle 45°; ASTM-D2457

Optical Properties	Metric	English	Comments
	60°	60°	Angle 60°, ASTM-D2457

Processing Properties	Metric	English	Comments
Die Opening	0.100 cm	0.0394 in	Blow Film Extrusion
Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	Blow Film Extrusion

Descriptive Properties	Value	Comments
Mass Temperature (°C)	175-185	Blow Film Extrusion
Temperature Profile (°C)	150-185	Blow Film Extrusion

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