Braskem F7018 LDPE Injection Molding Polyethylene

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

Material Notes:

F7018 is a low-density polyethylene with excellent processability and sealability at low temperatures. It does not contain additives. Its applications include: extrusion coating, injection molding of general purpose parts, and masterbatches.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Braskem-F7018-LDPE-Injection-Molding-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in³	ASTM-D792
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 190 °C	7.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	43	43	ASTM-D2240
Tensile Strength at Break	9.00 MPa	1310 psi	ASTM-D638
Tensile Strength, Yield	10.0 MPa	1450 psi	ASTM-D638
Film Elongation at Break, MD	390 %	390 %	ASTM-D882
Film Elongation at Break, TD	900 %	900 %	ASTM-D882
Flexural Modulus, 1% Secant	80.0 MPa	11600 psi	Blown Film Properties; ASTM-D2457
	240 MPa	34800 psi	Plaque Properties; ASTM-D790
Elmendorf Tear Strength TD	55 g	55 g	ASTM-D1922
Dart Drop Test	90.0 g	0.198 lb	ASTM-D1709
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

Thermal Properties	Metric	English	Comments
Vicat Softening Point	86.0 °C @Load 1.02 kg	187 °F @Load 2.25 lb	ASTM-D1525

Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ASTM-D1003

Optical Properties	Metric	English	Comments
Gloss			20@ 45 ASTM-D2457

Descriptive Properties	Value	Comments
Temperature Profile (°C)	130-180	Injection Molding
	180-310	Extrusion Coating

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