

Equate EFDC-7050 LLDPE Film Extrusion Resin

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

Material Notes:

EFDC-7050 is a linear low-density polyethylene resin for tubular blown film extrusion. Films extruded from EFDC-7050 have good toughness and high tensile strength and puncture resistance. The product offers excellent draw down capability for making thinner gauge films. EFDC-7050 contains high levels of slip and antiblocking agent. It offers excellent sealing and machining characteristics for high-speed film converting operations. Applications: EFDC-7050 is recommended for the manufacture of thin gauge liner films, garment bags and films for other industrial, food packaging and other general-purpose applications requiring toughness and puncture resistance. Information provided by Equate

Order this product through the following link:

http://www.lookpolymers.com/polymer_Equate-EFDC-7050-LLDPE-Film-Extrusion-Resin.php

Physical Properties	Metric	English	Comments
Bulk Density	0.530 g/cc	0.0191 lb/in ³	ASTM D1895
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D792
Thickness	25.0 microns	0.984 mil	As Tested
Melt Flow	2.0 g/10 min @Load 2.16 kg	2.0 g/10 min @Load 4.76 lb	ASTM D1238

Mechanical Properties	Metric	English	Comments
Elmendorf Tear Strength, MD	31.0 g/micron @Thickness 0.0250 mm	787 g/mil @Thickness 0.000984 in	ASTM D1922
Elmendorf Tear Strength, TD	124 g/micron @Thickness 0.0250 mm	3150 g/mil @Thickness 0.000984 in	ASTM D1922
Dart Drop	3.60 g/micron @Thickness 0.0250 mm	91.4 g/mil @Thickness 0.000984 in	ASTM D1709 A
Dart Drop Test	90.0 g	0.198 lb	F50; ASTM D1709 A
Film Tensile Strength at Break, MD	31.0 MPa @Thickness 0.0250 mm	4500 psi @Thickness 0.000984 in	ASTM D882
Film Tensile Strength at Break, TD	23.0 MPa @Thickness 0.0250 mm	3340 psi @Thickness 0.000984 in	ASTM D882

Mechanical Properties	Metric	English	Comments
1% Secant Modulus, MD	225 MPa @Thickness 0.0250 mm	32300 psi @Thickness 0.000984 in	ASTM D882
1% Secant Modulus, TD	220 MPa @Thickness 0.0250 mm	31900 psi @Thickness 0.000984 in	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	124 °C	255 °F	Equate Test Method

Optical Properties	Metric	English	Comments
Haze	13 %	13 %	ASTM D1003
Gloss	55 %	55 %	45°; ASTM D2457

Processing Properties	Metric	English	Comments
Zone 1	170 °C	338 °F	
Zone 2	180 °C	356 °F	
Zone 3	185 °C	365 °F	
Zone 4	180 °C	356 °F	
Adapter Temperature	180 °C	356 °F	
Die Temperature	180 °C	356 °F	
Melt Temperature	180 °C	356 °F	
Head Temperature	180 °C	356 °F	
Die Opening	>= 0.180 cm	>= 0.0709 in	
Blow-up Ratio (BUR)	2.0	2.0	2:1 As Tested

Descriptive Properties	Value	Comments
Puncture Energy	60 J/mm	Equate Test Method

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