

Equate EFDC-7087 LLDPE Film Extrusion Resin

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

Material Notes:

EFDC-7087 is a linear low-density polyethylene resin for tubular blown film extrusion. Films made from EFDC-7087 have good toughness, high tensile strength and outstanding puncture resistance. EFDC-7087 contains high levels of slip and antiblocking agent. The product offers excellent draw down capability for thinner gauge film production. The films have good seal-ability and machinability for easy conversion on high-speed machines. Applications: EFDC-7087 is recommended for the manufacture of thin gauge liner films, garment bags and other industrial and consumer packaging applications requiring toughness and puncture resistance. Information provided by Equate

Order this product through the following link:

http://www.lookpolymers.com/polymer_Equate-EFDC-7087-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	1.0 g/10 min @Load 2.16 kg	1.0 g/10 min @Load 4.76 lb	ASTM D1238

Mechanical Properties	Metric	English	Comments
Elmendorf Tear Strength, MD	35.0 g/micron @Thickness 0.0250 mm	889 g/mil @Thickness 0.000984 in	ASTM D1922
Elmendorf Tear Strength, TD	135 g/micron @Thickness 0.0250 mm	3430 g/mil @Thickness 0.000984 in	ASTM D1922
Dart Drop	4.20 g/micron @Thickness 0.0250 mm	107 g/mil @Thickness 0.000984 in	ASTM D1709 A
Dart Drop Test	105 g	0.232 lb	F50; ASTM D1709 A
Film Tensile Strength at Break, MD	34.0 MPa @Thickness 0.0250 mm	4930 psi @Thickness 0.000984 in	ASTM D882
Film Tensile Strength at Break, TD	26.0 MPa @Thickness 0.0250 mm	3770 psi @Thickness 0.000984 in	ASTM D882
	193 MPa	28000 psi	

Mechanical Properties	Metric	English	Comments
	@ Thickness 0.0250 mm	@ Thickness 0.000984 in	
1% Secant Modulus, TD	221 MPa	32100 psi	ASTM D882
	@ Thickness 0.0250 mm	@ Thickness 0.000984 in	

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

Optical Properties	Metric	English	Comments
Haze	14 %	14 %	ASTM D1003
Gloss	55 %	55 %	45°; ASTM D2457

Processing Properties	Metric	English	Comments
Zone 1	175 °C	347 °F	
Zone 2	185 °C	365 °F	
Zone 3	190 °C	374 °F	
Zone 4	185 °C	365 °F	
Adapter Temperature	185 °C	365 °F	
Die Temperature	185 °C	365 °F	
Head Temperature	185 °C	365 °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	70 J/mm	Equate Test Method

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