

Chevron Phillips Dynex™ D5081 Enhanced LLDPE Blown Film Resin (discontinued **)

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

Material Notes:

Resin Type: enhanced linear low density polyethylene, slip, antiblock and processing aid additives
 Characteristics: superior dart impact, optical, hot-tack and heat seal properties, good drawdown, can be used straight or blended with LDPE or HDPE
 Applications: thick or thin film applications where superior toughness and abuse resistance, hot-tack and heat-seal, and optical properties are critical
 Natural Color
 Slip: 0 ppm
 Antiblock: 0 ppm.
 Recommended processing conditions: 6.35 cm extruder. 24:1 screw L/D ratio. 0.203 cm die opening. Melt temperature 232°C. Blow up ratio 2.5:1. Output rate 8.0 lb/hr/in die cir.
 Hot-Tack Initiation Temperature: 66°C
 Ultimate Hot-Tack Strength: 3.4 N
 Heat Seal Initiation Temperature at 0.5 lb.: 88°C
 Ultimate Heat Seal Strength: 10.7 N.
 Film properties based on thickness of 0.0318 mm.
 Information provided by Chevron Phillips Chemical Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Dynex-D5081-Enhanced-LLDPE-Blown-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.916 g/cc	0.0331 lb/in ³	ASTM D4883
Melt Flow	0.85 g/10 min	0.85 g/10 min	Condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	600 %	600 %	ASTM D882
Film Elongation at Break, TD	730 %	730 %	ASTM D882
Secant Modulus, MD	0.180 GPa	26.1 ksi	ASTM D882
Secant Modulus, TD	0.200 GPa	29.0 ksi	ASTM D882
Coefficient of Friction	2.0	2.0	ASTM D1894
Elmendorf Tear Strength, MD	19.7 g/micron	500 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	27.2 g/micron	690 g/mil	ASTM D1922
Dart Drop	20.4 g/micron	518 g/mil	F-50 at 26 in.; ASTM D1709
Dart Drop Test	650 g	1.43 lb	F-50 at 26 in.; ASTM D1709
Film Tensile Strength at Break, MD	55.9 MPa	8110 psi	ASTM D882
Film Tensile Strength at Break, TD	45.1 MPa	6540 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	8.2 %	8.2 %	ASTM D2457

Optical Properties	Metric	English	Comments
	110 %	110 %	60°, ASTM D 2457

Processing Properties	Metric	English	Comments
Melt Temperature	232 °C	450 °F	

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