

Chevron Phillips Vytek™ V205E9 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: excellent dart impact, 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 excellent toughness and abuse resistance, hot-tack and heat seal properties are required
 Natural Color: Slip: 2000 ppm
 Antiblock: 9000 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: 92°C
 Ultimate Hot-Tack Strength: 3.1 N
 Heat Seal Initiation Temperature at 0.5 lb.: 107°C
 Ultimate Heat Seal Strength: 14.4 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-Vytek-V205E9-Enhanced-LLDPE-Blown-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.917 g/cc	0.0331 lb/in ³	ASTM D4883
Melt Flow	0.50 g/10 min	0.50 g/10 min	Condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	480 %	480 %	ASTM D882
Film Elongation at Break, TD	680 %	680 %	ASTM D882
Secant Modulus, MD	0.230 GPa	33.4 ksi	ASTM D882
Secant Modulus, TD	0.250 GPa	36.3 ksi	ASTM D882
Coefficient of Friction	0.10	0.10	ASTM D1894
Elmendorf Tear Strength, MD	17.3 g/micron	440 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	29.1 g/micron	740 g/mil	ASTM D1922
Dart Drop	22.3 g/micron	566 g/mil	F-50 at 26 in.; ASTM D1709
Dart Drop Test	710 g	1.57 lb	F-50 at 26 in.; ASTM D1709
Film Tensile Strength at Break, MD	54.9 MPa	7960 psi	ASTM D882
Film Tensile Strength at Break, TD	34.3 MPa	4970 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	23 %	23 %	ASTM D2457

Optical Properties	Metric	English	Comments
	61 %	61 %	60°. ASTM D 2457

Processing Properties	Metric	English	Comments
Melt Temperature	227 - 232 °C	441 - 450 °F	

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