

Borealis Himod™ FT7294 LDPE for Film

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

Material Notes:

Himod FT7294 is a tubular, low-density polyethylene grade for the production of packaging films. Compared to standard LDPE grades, the Himod products provide a combination of higher stiffness and improved optical properties. Benefits can be obtained in terms of better down gauging possibilities and improved processability. Excellent printing quality is obtained due to high clarity and better layout. Himod FT7294 is intended for applications like: stiff films with excellent optical properties for automated packaging machinery, lamination film/food packaging, textile packaging films, and magazine packaging. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Himod-FT7294-LDPE-for-Film.php

Physical Properties	Metric	English	Comments
Density	0.929 g/cc	0.0336 lb/in ³	ISO 1183
Thickness	40.0 microns	1.57 mil	
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 190 °C	3.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
Antiblock Level	550 ppm	550 ppm	Additive - Synthetic Silica
Slip Level	500 ppm	500 ppm	Additive - Erucamide

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	250 %	250 %	ISO 527-3
Film Elongation at Break, TD	580 %	580 %	ISO 527-3
Secant Modulus, MD	0.230 GPa	33.4 ksi	ASTM D882-A
Secant Modulus, TD	0.260 GPa	37.7 ksi	ASTM D882-A
Impact	29	29	Puncture Resistance, force (N); ASTM D5748
Puncture Energy	0.400 J	0.295 ft-lb	ASTM D5748
Coefficient of Friction, Dynamic	0.20	0.20	ISO 8295
Tear Strength, Total	2.50 N	0.562 lb (f)	TD; ISO 6383/2
	4.00 N	0.899 lb (f)	MD; ISO 6383/2
Dart Drop	2.00 g/micron	50.8 g/mil	ISO 7765/1
Film Tensile Strength at Break, MD	22.0 MPa	3190 psi	ISO 527-3

Mechanical Properties ¹ Break, TD	Metric ² Pa	English ³	Comments
Thermal Properties	Metric	English	Comments
Melting Point	116 °C	241 °F	ISO 11357/03
Vicat Softening Point	102 °C	216 °F	A (10N); ISO 306
Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	ASTM D1003
Gloss	100 %	100 %	ASTM D2457

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