

Borealis Himod™ FT6273 LDPE for Film

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

Material Notes:

Himod FT6273 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 FT6273 is intended for applications like: fine shrink films with higher stiffness and transparency, stiff films with excellent optical properties for automated packaging machinery, and lamination film/food packaging. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Himod-FT6273-LDPE-for-Film.php

Physical Properties	Metric	English	Comments
Density	0.927 g/cc	0.0335 lb/in ³	ISO 1183
Thickness	40.0 microns	1.57 mil	
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
Antiblock Level	750 ppm	750 ppm	Additive - Synthetic Silica

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	230 %	230 %	ISO 527-3
Film Elongation at Break, TD	550 %	550 %	ISO 527-3
Secant Modulus, MD	0.190 GPa	27.6 ksi	ASTM D882-A
Secant Modulus, TD	0.220 GPa	31.9 ksi	ASTM D882-A
Impact	33.5	33.5	Puncture Resistance, force (N); ASTM D5748
Puncture Energy	0.500 J	0.369 ft-lb	ASTM D5748
Coefficient of Friction, Dynamic	0.40	0.40	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	2.25 g/micron	57.1 g/mil	ISO 7765/1
Film Tensile Strength at Break, MD	24.0 MPa	3480 psi	ISO 527-3
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	116 °C	241 °F	ISO 11357/03
Vicat Softening Point	101 °C	214 °F	A (10N); ISO 306

Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	ASTM D1003
Gloss	105 %	105 %	ASTM D2457

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