

Borealis FA7220 Low Density Polyethylene

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

Material Notes:

FA7220 is a Low Density Polyethylene for Film Extrusion. Includes Antioxidant. This grade is developed for production of blown film or cast film with good optical properties. When cast on a polished chill roll, the grade produces household cling film with excellent optical and cling properties. Applications: protective film, very thin and clear packing films, and laundry and other textile bags. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-FA7220-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ISO 1183
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 190 °C	4.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	400 %	400 %	ISO 527-3
Film Elongation at Break, TD	650 %	650 %	ISO 527-3
Tensile Modulus	0.180 GPa	26.1 ksi	TD; ASTM D882-A
	0.200 GPa	29.0 ksi	MD; ASTM D882-A
Coefficient of Friction	0.80	0.80	Dynamic; ISO 8295
Elmendorf Tear Strength, MD	7.65 g/micron	194 g/mil	ISO 6383/2
Elmendorf Tear Strength, TD	5.097 g/micron	129.5 g/mil	ISO 6383/2
Dart Drop Test	80.0 g @Thickness 0.0400 mm	0.176 lb @Thickness 0.00157 in	ISO 7765-1
Film Tensile Strength at Break, MD	24.0 MPa	3480 psi	ISO 527-3
Film Tensile Strength at Break, TD	18.0 MPa	2610 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	111 °C	232 °F	ISO 11357-3
Vicat Softening Point	94.0 °C	201 °F	ISO 306

Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	ASTM D1003
Gloss	110 %	110 %	ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	150 - 180 °C	302 - 356 °F	

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