

Borealis FA3220 Low Density Polyethylene

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

Material Notes:

FA3220 is a Low Density Polyethylene for Film Extrusion. Autoclave Technology. Unmodified. This grade is developed to give a strong film with balanced shrink properties. Applications FA3220 has been developed especially for applications like: heavy-duty sack, food packaging, agricultural films, construction films, and shrink film. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-FA3220-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ISO 1183
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 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	600 %	600 %	ISO 527-3
Tensile Modulus	0.190 GPa	27.6 ksi	MD/TD; ASTM D882-A
Puncture Energy	5.00 J	3.69 ft-lb	130 N; 125µm sample; ASTM D5748
Coefficient of Friction	0.60	0.60	Dynamic; ISO 8295
Elmendorf Tear Strength, MD	4.077 g/micron	103.6 g/mil	ISO 6383/2
Elmendorf Tear Strength, TD	4.89 g/micron	124 g/mil	ISO 6383/2
Dart Drop Test	450 g	0.992 lb	ISO 7765-1
Film Tensile Strength at Break, MD	25.0 MPa	3630 psi	ISO 527-3
Film Tensile Strength at Break, TD	23.0 MPa	3340 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	110 °C	230 °F	ISO 11357-3
Vicat Softening Point	96.0 °C	205 °F	ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	170 - 200 °C	338 - 392 °F	

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