Braskem HF 0150 HDPE Blown Film Extrusion Polyethylene

Categories: Polymer; Film; Thermoplastic; Polyethylene; HDPE; High Density Polyethylene (HDPE), Film Grade

Material Notes: 38µm film gauge, obtained in 75mm extruder, die gap 1.0mm, output 1.75 kg/h-cm with 2:1 BUR.
Applications: Grocery and T-shirt bags; merchandise bags; frozen-food bags.

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in³	ASTM D1505
Thickness	38.0 microns	1.50 mil	
Melt Flow	0.45 g/10 min @Load 5.00 kg, Temperature 190 °C	0.45 g/10 min @Load 11.0 lb, Temperature 374 °F	ASTM D1238
High Load Melt Index	10 g/10 min @Load 21.6 kg, Temperature 190 °C	10 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	23.0 MPa	3340 psi	ASTM D882
Film Tensile Strength at Yield, TD	27.0 MPa	3920 psi	ASTM D882
Film Elongation at Break, MD	571 %	571 %	ASTM D882
Film Elongation at Break, TD	832 %	832 %	ASTM D882
Elmendorf Tear Strength, MD	0.600 g/micron	15.2 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	4.10 g/micron	104 g/mil	ASTM D1922
Dart Drop	3.13 g/micron	79.5 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	57.0 MPa	8270 psi	ASTM D882
Film Tensile Strength at Break, TD	54.0 MPa	7830 psi	ASTM D882
Heat Seal Strength Initiation	125 °C	257 °F	Sealing Initial Temperature;

Descriptive Properties	
Minimum Recommended Thickness	13 µm
Puncture Strength	71 J/m