Eastman D4004-F Polyethylene (discontinued **)

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE

Material Notes:

Polyethylene D4004-F is a fractional melt formulation designed for film applications. It is suggested for applications requiring toughness, clarity, high strength, and for blending with LLDPEList of Applications: Food packagingFood-contact applicationsInformation supplied by the manufacturer.Information from manufacturer data sheet.Eastman Chemical Company sold its polyethylene business to Westlake Chemical Corporation in Dec. 2006. This grade no longer appears in the Westlake product line.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Eastman-D4004-F-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in³	ASTM D4883
Thickness	38.0 microns	1.50 mil	
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	33.0 MPa	4790 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ASTM D882
Film Elongation at Break, MD	200 %	200 %	ASTM D882
Film Elongation at Break, TD	800 %	800 %	ASTM D882
Secant Modulus, MD	0.220 GPa	31.9 ksi	1% Secant; ASTM D882
Secant Modulus, TD	0.274 GPa	39.7 ksi	1% Secant; ASTM D882
Elmendorf Tear Strength MD	550 g	550 g	
Elmendorf Tear Strength TD	130 g	130 g	
Elmendorf Tear Strength, MD	14.5 g/micron	368 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	3.40 g/micron	86.4 g/mil	ASTM D1922
Dart Drop	2.90 g/micron	73.7 g/mil	ASTM D1709A
Film Tensile Strength at Break, MD	33.0 MPa	4790 psi	ASTM D882
Film Tensile Strength at Break, TD	22.0 MPa	3190 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 °C	203 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	8.5 %	8.5 %	ASTM D1003
Gloss	60 %	60 %	at 45°; ASTM D2457

Descriptive Properties	Value	Comments
Process	Film	

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