

Eastman D4052-F Polyethylene (discontinued **)

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

Material Notes:

D4052-F is a fractional-melt low density formulation with low slip and low antiblock. It is suggested for film applications requiring impact strength, outstanding clarity, and good tear resistance. This product is suggested for packaging frozen foods and for similar applications requiring toughness and clarity. 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-D4052-F-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	ASTM D4883
Moisture Vapor Transmission	18.6 cc-mm/m ² -24hr-atm	47.2 cc-mil/100 in ² -24hr-atm	ASTM F372
Oxygen Transmission	200 cc-mm/m ² -24hr-atm	508 cc-mil/100 in ² -24hr-atm	ASTM D1434
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
Coefficient of Friction	0.20	0.20	ASTM D1894
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 Mechanical Properties	2.90 g/micron Metric	73.7 g/mil English	ASTM D1709A Comments
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	6.0 %	6.0 %	ASTM D1003
Gloss	70 %	70 %	at 45°; ASTM D2457
Transmission, Visible	90 %	90 %	ASTM D1746

Descriptive Properties	Value	Comments
Process	Film	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China