

LyondellBasell Adflexâ„¢ Q 402 F Polyolefin

Category : Polymer , Film , Thermoplastic , Polyolefin , Polyolefin, Film Grade , Polyolefin, Film Grade (Polyolefin)

Material Notes:

Description: Adflexâ„¢ Q 402 F thermoplastic olefin resin is designed for air quenched blown film applications. Q 402 F resin meets FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for all food contact, except for certain fatty foods. All ingredients meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada). Film property values shown were determined on 2.0 mil thickness blown film extruded at 460Â°F, 2.5:1 BUR, with a 80 mil die gap. Uses: Film, heavy duty bags, packaging

Information provided by Basell.

Order this product through the following link:
http://www.lookpolymers.com/polymer_LyondellBasell-Adflex-Q-402-F-Polyolefin.php

Physical Properties	Metric	English	Comments
Density	0.892 g/cc	0.0322 lb/inÂ³	ASTM D792
Thickness	50.8 microns	2.00 mil	
Melt Flow	0.65 g/10 min @Load 2.16 kg, Temperature 230 Â°C	0.65 g/10 min @Load 4.76 lb, Temperature 446 Â°F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	17.9 MPa	2600 psi	ASTM D882
Film Tensile Strength at Yield, TD	15.2 MPa	2200 psi	ASTM D882
Film Elongation at Break, MD	670 %	670 %	ASTM D882
Film Elongation at Break, TD	870 %	870 %	ASTM D882
Secant Modulus, MD	0.330 GPa	47.9 ksi	2% Secant, 2 mil; ASTM D882
Secant Modulus, TD	0.303 GPa	43.9 ksi	2% Secant, 2 mil; ASTM D882
Elmendorf Tear Strength, MD	8.66 g/micron	220 g/mil	Method A; ASTM D1922
Elmendorf Tear Strength, TD	18.1 g/micron	460 g/mil	Method A; ASTM D1922
Dart Drop	10.8 g/micron	275 g/mil	Method A; ASTM D1709
Film Tensile Strength at Break, MD	68.3 MPa	9900 psi	ASTM D882
Film Tensile Strength at Break, TD	48.3 MPa	7000 psi	ASTM D882

Descriptive Properties	Value	Comments
Heat Resistance	305Â°F	Basell Test Method
Puncture Resistance	160 ft-lb/in³	Basell Test Method

Descriptive Properties	Value	Comments
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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