

LyondellBasell Adflex Q 401 F TPO Resin

Category : Polymer , Film , Thermoplastic

Material Notes:

Thermoplastic olefin resin with slip and antiblock for air quenched blown film, excellent heat resistance, excellent puncture resistance, great tear resistance, FDA acceptable. Applications: films requiring resistance to steam sterilization, autoclavable biohazard waste bags, auto masking, heavy duty bags, modified atmosphere packaging. Meets FDA requirements in 21 CFR 177.2600 for rubber articles with repeated use applications. The final item is subject to extraction requirements in 21 CFR 177.2600. Description: Adflex Q 401 F thermoplastic olefin resin with slip and antilock, is designed for air quenched blown film applications. It is based on proprietary Montell process technology. This resin meets FDA requirements in the Code of Federal Regulations in 21 CFR 177.2600 for resins in rubber articles for repeated use applications. All ingredients meet the chemical registration requirements of TSCA and DSL. Information provided by Montell Polyolefins. LyondellBasell is the successor company to Montell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Adflex-Q-401-F-TPO-Resin.php

Physical Properties	Metric	English	Comments
Density	0.890 g/cc	0.0322 lb/in ³	ASTM D792B
Thickness	50.8 microns	2.00 mil	
Melt Flow	0.65 g/10 min @Load 2.16 kg, Temperature 230 °C	0.65 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
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	0.331 GPa	48.0 ksi	2% Secant; ASTM D882
Secant Modulus, TD	0.304 GPa	44.1 ksi	2% Secant; ASTM D882
Elmendorf Tear Strength MD	440 g	440 g	ASTM D1922A
Elmendorf Tear Strength TD	920 g	920 g	ASTM D1922A
Elmendorf Tear Strength, MD	8.66 g/micron	220 g/mil	ASTM D1922A
Elmendorf Tear Strength, TD	18.1 g/micron	460 g/mil	ASTM D1922A
Dart Drop	10.8 g/micron	275 g/mil	ASTM D1709
Dart Drop Test	550 g	1.21 lb	ASTM D1709A

Film Tensile Strength at Break, MD Mechanical Properties	68.3 MPa Metric	9910 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	48.3 MPa	7010 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	152 Â°C	306 Â°F	Heat Resistance per Montell

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