

LyondellBasell Purell® PE1840H Low Density Polyethylene, Blown Film, Injection Molding, Blow Fill & Seal, Extrusion Blow Molding

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Blow Molding Grade

Material Notes:

Purell PE 1840 H is a low density polyethylene with good flexibility and is delivered in pellet form. It is designed for small blow molding but can also be used in film applications and injection molding. It can be used for medical devices and packaging of pharmaceuticals. Regulatory Status: Purell PE 1840 H meets the requirements of the Food and Drug Administration, Code of Federal Regulations, 21CFR Section 177.1520. This regulation allows the use of this olefin polymer in "articles or components of articles intended for use in contact with food." Contact your Equistar sales representative for more information regarding the suitability of specific products for specific applications. Specific recommendations for processing Purell PE 1840 H can only be made when the processing conditions, equipment, and end use are known. For further suggestions, please contact your Equistar sales representative. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Purell-PE1840H-Low-Density-Polyethylene-Blown-Film-Injection-Molding-Blow-Fill-Seal-Extrusion-Blow-Molding.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ASTM D1505
Thickness	50.8 microns	2.00 mil	
Melt Flow	1.5 g/10 min	1.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	47	47	ASTM D2240
Tensile Strength at Break	12.2 MPa	1770 psi	ASTM D638
Tensile Strength, Yield	10.8 MPa	1560 psi	ASTM D638
Elongation at Break	670 %	670 %	ASTM D638
Tensile Modulus	0.254 GPa	36.9 ksi	1% Secant; ASTM D638
Flexural Modulus	0.241 GPa	35.0 ksi	1% Secant; ASTM D790
Dart Drop	2.36 g/micron	60.0 g/mil	ASTM D1709

Thermal Properties	Metric	English	Comments
Vicat Softening Point	87.0 Å°C	189 Å°F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze			ASTM D1003

Optical Properties	Metric	English	Comments
Gloss	$\geq 20\%$	$\geq 20\%$	20°; ASTM D2457
	75 %	75 %	Gardner, 60°; ASTM D523

Processing Properties	Metric	English	Comments
Melt Temperature	180 °C	356 °F	
Blow-up Ratio (BUR)	2.0	2.0	

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