EQUATE PE EFDA-7047

Linear Low Density Polyethylene

EQUATE Petrochemical Company KSCC

Message:

EFDA-7047 is a linear low-density polyethylene (LLDPE) resin for tubular blown film extrusion. Films made from this resin have good toughness, high tensile strength and puncture resistance. EFDA-7047 does not contain any slip or antiblocking agent.
APPLICATIONS
Industrial liners.
Blown film stretch wrap.
Heavy-duty films.
General-purpose blown films for a variety of applications.

General Information	
Features	Low density High tensile strength Perforation resistance Good toughness Compliance of Food Exposure
Uses	Films Lining Stretch winding General
Agency Ratings	FDA Food Exposure, Not Rated
Forms	Particle
Processing Method	Film extrusion Blow film

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm³	ASTM D792
Bulk Density	538	kg/m³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882
1% secant, MD: 25 µm, blown film	193	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	221	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 25 µm, blown film	34.0	MPa	ASTM D882
TD: Broken, 25 µm, blown film	26.0	MPa	ASTM D882

Dart Drop Impact (Blown Film)	110	g	ASTM D1709A
Elmendorf Tear Strength [1]			ASTM D1922
MD : 25.0 µm	35.0	kN/m	ASTM D1922
TD : 25.0 µm	135.0	kN/m	ASTM D1922
Puncture Energy (25.0 µm) [2]	700	J/cm	Internal method
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	124	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	65		ASTM D2457
Haze (25.0 µm, Blown Film)	11	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 210	°C	
Extrusion instructions			
Die Gap: >1.8 mm			
NOTE			
1.	Blown Film		
2.	Blown Film		

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