EQUATE PE EFDC-7087

Linear Low Density Polyethylene

EQUATE Petrochemical Company KSCC

Message:

EFDC-7087 is a linear low-density polyethylene (LLDPE) resin for tubular blown film extrusion. Films made from EFDA-7087 have good toughness, high tensile strength and outstanding puncture resistance. EFDA-7087 contains high levels of slip and antiblocking agent. The product offers excellent draw down capability for thinner gauge film production. The films have good sealability and machinability for easy conversion on high-speed machines. EFDC-7087 is recommended for the manufacture of thin gauge liner films, garment bags and other industrial and consumer packaging applications requiring toughness and puncture resistance.

General Information	
Additive	Anti-caking agent slip agent
Features	Low density High tensile strength smoothness Perforation resistance Anti-caking property Machinable Good stripping Good toughness Compliance of Food Exposure
Uses	Packaging Films Lining Bags Industrial application
Agency Ratings	FDA Food Exposure, Not Rated European food contact, 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	530	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)	55		ASTM D2457
Haze (25.0 µm, Blown Film)	14	%	ASTM D1003
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	175	°C	
Cylinder Zone 2 Temp.	185	°C	
Cylinder Zone 3 Temp.	190	°C	
Cylinder Zone 4 Temp.	185	°C	
Adapter Temperature	185	°C	
Melt Temperature	185	°C	
Die Temperature	185	°C	
Extrusion instructions			
Die Gap: >1.8 mm			
NOTE			
1.	Blown Film		
2.	Blown Film		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


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