EQUATE PE EFDC-7050

Linear Low Density Polyethylene

EQUATE Petrochemical Company KSCC

Message:

EFDC-7050 is a linear low-density polyethylene (LLDPE) resin for tubular blown film extrusion. Films extruded from EFDC-7050 have good toughness and high tensile strength and puncture resistance. The product offers excellent draw down capability for making thinner gauge films. EFDC contains high levels of slip and antiblocking agent. It offers excellent sealing and machining characteristics for high-speed film converting operations. EFDC-7050 is recommended for the manufacture of thin gauge liner films, garment bags and films for other industrial, food packaging and other general-purpose 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	Films			
	Lining			
	Bags			
	Industrial application			
	Food packaging			
	General			
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)	2.0	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	195	MPa	ASTM D882
1% secant, TD: 25 μm, blown film	220	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 25 µm, blown film	31.0	MPa	ASTM D882
TD: Broken, 25 µm, blown film	23.0	MPa	ASTM D882
Dart Drop Impact (Blown Film)	90	g	ASTM D1709A
Elmendorf Tear Strength ¹			ASTM D1922
MD : 25.0 μm	31.0	kN/m	ASTM D1922
TD : 25.0 μm	124.0	kN/m	ASTM D1922
Puncture Energy (25.0 μ m) ²	600	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)	13	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	170	°C	
Cylinder Zone 2 Temp.	180	°C	
Cylinder Zone 3 Temp.	185	°C	
Cylinder Zone 4 Temp.	180	°C	
Adapter Temperature	180	°C	
Melt Temperature	180	°C	
Die Temperature	180	°C	
Extrusion instructions			
Die Gap: >1.8 mm			
NOTE			
1.	Blown Film		
2.	Blown Film		

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