Purell PE 2420 F

Low Density Polyethylene

LyondellBasell Industries

Message:

Purell PE 2420 F is a high purity low density polyethylene with good processability, good opticals and good chemical resistance. It is delivered in pellet form. The grade is used by our customers for films for healthcare applications including packaging of pharmaceuticals. Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical (P & AD) and Business contacts first. To discuss a medical/pharmaceutical application please contact: your local Distributor or your local LyondellBasell contact.

General Information				
Features	High purity			
	Low speed solidification crystal point			
	Optical			
	Ethylene oxide disinfection			
	Workability, good			
	Good heat sealability			
	Good chemical resistance			
Uses	Packaging			
	Films			
	Bags			
	Drug packaging			
	Medical/nursing supplies			
Forms	Particle			
Processing Method	Blow film			
	Extrusion blow molding			
	Injection blowing molding			
Physical	Nominal Value	Unit	Test Method	
Density	0.923	g/cm³	ISO 1183	
Melt Mass-Flow Rate (MFR) (190°C/2.16	0.75	a (10 min	100 1100	
kg)	U.75	g/ i0 min	Taat Mathad	
		Onit		
Pall Indeptation Lindpage (11.40/20)	48	MDa	ISO 808	
Bail Indentation Hardness (H 49/30)	18.U		ISO 2039-1	
		Unit		
	200		150 527-2	
rensile Stress (Yield)	11.0	МРа	150 527-2	
	0.85		ISO 8295	
Films	Nominal Value	Unit	lest Method	

Film Thickness - Tested	50	μm		
Film Thickness - Recommended / Available	25 to 100 μm			
Tensile Strength			ISO 527-3	
MD: 50 µm, blown film	26.0	MPa	ISO 527-3	
TD: 50 μm, blown film	20.0	MPa	ISO 527-3	
Tensile Elongation			ISO 527-3	
MD: Broken, 50 µm, blown film	300	%	ISO 527-3	
TD: Broken, 50 μm, blown film	600	%	ISO 527-3	
Dart Drop Impact (50 µm, Blown Film)	130	g	ASTM D1709	
Thermal	Nominal Value	Unit	Test Method	
Vicat Softening Temperature	96.0	°C	ISO 306/A50	
Melting Temperature				
1	170 - 220	°C		
	111	°C	ISO 3146	
Optical	Nominal Value	Unit	Test Method	
Gloss			ASTM D2457	
20, 50.0 µm, blown film	90		ASTM D2457	
60, 50.0 μm, blown film	> 40		ASTM D2457	
Haze (50.0 µm, Blown Film)	< 7.0	%	ASTM D1003	
Additional Information	Nominal Value	Unit	Test Method	
Failure Energy - Blown Film (50.0 µm)	5.5	J/mm	DIN 53373	
Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 2:1.				
Extrusion	Nominal Value	Unit		
Melt Temperature	170 - 220	°C		
NOTE				
1.	Film			

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Recommended distributors for this material

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