Purell PE 3020 H

Low Density Polyethylene

LyondellBasell Industries

Message:

Purell PE 3020 H is a high purity low density polyethylene with high rigidity, good opticals and good chemical resistance. It is delivered in pellet form. The grade is used by our customers for films and extrusion coating for healthcare applications including primary and secondary 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.

General Information	
Features	High purity
	Rigidity, high
	Rigid, good
	Optical
	Ethylene oxide disinfection
	Workability, good
	Good heat sealability
	Good chemical resistance
Uses	Packaging
	Films
	Bags
	cast film
	Food packaging
	Shrinkable film
	Drug packaging
	Medical/nursing supplies
Forms	Particle
Processing Method	Blow film
	Extrusion coating
	cast film

Physical	Nominal Value	Unit	Test Method
Density	0.927	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	51		ISO 868
Ball Indentation Hardness (H 49/30)	21.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Modulus	300	MPa	ISO 527-2
Tensile Stress (Yield)	13.0	MPa	ISO 527-2
Coefficient of Friction	0.55		ISO 8295
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Recommended / Available	20 to 60 µm		
Tensile Strength			ISO 527-3
MD: 50 µm, blown film	18.0	MPa	ISO 527-3
TD: 50 µm, blown film	25.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	600	%	ISO 527-3
TD: Broken, 50 µm, blown film	350	%	ISO 527-3
Dart Drop Impact (50 µm, Blown Film)	110	g	ASTM D1709
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	100	°C	ISO 306/A50
Melting Temperature (DSC)	114	°C	ISO 3146
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss			ASTM D2457
20, 50.0 µm, blown film	110		ASTM D2457
60, 50.0 µm, blown film	70		ASTM D2457
Haze (50.0 µm, Blown Film)	6.0	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Failure Energy	40.0	J/cm	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	

Recommended distributors for this material

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