



Purell PE 3020 H

Polyethylene, Low Density

Product Description

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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO ASTM
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Blown Film, Cast Film
Features	Ethylene Oxide Sterilisation, Low Gel, Good Heat Seal, Good Optical Properties, Good Processability, High Purity, Good Stiffness
Typical Customer Applications	Bags & Pouches, Healthcare Applications, Medical Film, Secondary Packaging

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.927	g/cm ³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	2.0	g/10 min
Mechanical			
Tensile Modulus	ISO 527-1, -2	300	MPa
Tensile Stress at Yield	ISO 527-1, -2	13.0	MPa
Tensile Strength	ISO 527-1, -3	25.0	MPa
<i>Note: TD (50 micron film)</i>		18.0	MPa
<i>Note: MD (50 micron film)</i>			
Tensile Strain at Break	ISO 527-1, -3	350	%
<i>Note: TD (50 micron film)</i>		600	%
<i>Note: MD (50 micron film)</i>			
Hardness			
Shore hardness (Shore D)	ISO 868	51	
Ball indentation hardness (H 49/30)	ISO 2039-1	21.0	MPa
Thermal			
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	100	°C
Melting Temperature	ISO 3146	114	°C
Film			
Recommended film thickness		20 to 60	µm

Additional Properties

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.

Failure Energy, DIN 53373, 50 µm: 4 J/mm

Coefficient of Friction, ISO 8295: 55%

Recommended processing temperatures: 170°C to 220°C.

Notes

Typical properties; not to be construed as specifications.