



Purell PE 2420 F

Polyethylene, Low Density

Product Description

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.

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, Extrusion Blow Molding, Injection Blow Molding
Features	Ethylene Oxide Sterilisation, Low Gel, Good Heat Seal, Good Optical Properties, Good Processability, High Purity
Typical Customer Applications	Bags & Pouches, Blow-fill-seal applications, Healthcare Applications, Medical Film, Secondary Packaging

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.923	g/cm³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	0.75	g/10 min
Mechanical			
Tensile Modulus	ISO 527-1, -2	260	MPa
Tensile Stress at Yield	ISO 527-1, -2	11.0	MPa
Tensile Strength	ISO 527-1, -3		
		20.0	MPa
Note: TD (50 micron film)			
		26.0	MPa
Note: MD (50 micron film)			
Tensile Strain at Break	ISO 527-1, -3		
		600	%
Note: TD (50 micron film)			
		300	%
Note: MD (50 micron film)			
Hardness			
Shore hardness (Shore D)	ISO 868	48	
Ball indentation hardness (H 49/30)	ISO 2039-1	18.0	MPa
Thermal			
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	96.0	°C
Melting Temperature	ISO 3146	111	°C
Film			
Recommended film thickness		25 to 100	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, 50µm: 5.5 J/mm

Coefficient of Friction, ISO 8295: 85%

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

Notes

Typical properties; not to be construed as specifications.