



Purell PE3420F

Polyethylene, Low Density

Product Description

Purell PE 3420 F is the latest generation of low density polyethylene with extremely high rigidity and outstanding temperature resistance. It is delivered in pellet form. The grade is used by our customers for packaging of pharmaceuticals in the small blow moulding market e.g. produced with Blow Fill Seal technology.

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	Blow, Fill, & Seal, Blown Film, Extrusion Blow Molding, Injection Blow Molding, Injection Molding
Features	Good Chemical Resistance, Ethylene Oxide Sterilisation, High Heat Resistance, High Rigidity
Typical Customer Applications	Blow-fill-seal applications, Bottles and vials, Caps & Closures (Healthcare), Healthcare Applications, Medical Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.933	g/cm ³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	0.90	g/10 min
Bulk density	ISO 60	>0.500	g/cm ³
Mechanical			
Tensile Modulus	ISO 527-1, -2	520	MPa
Tensile Stress at Yield	ISO 527-1, -2	15.0	MPa
Tensile Strain at Yield	ISO 527-1, -2	11	%
Thermal			
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	111	°C
Melting Temperature	ISO 3146	119	°C

Additional Properties

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

Notes

Typical properties; not to be construed as specifications.