

Technical Data Sheet

Purell PE 2420 F

Low Density Polyethylene

Product Description

Purell PE 2420F 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.

Application	Bags & Pouches; Blow-Fill-Seal Applications; Healthcare Applications; Medical Devices; Medical Film; Secondary Packaging
Market	Flexible Packaging; Healthcare; Rigid Packaging
Processing Method	Blow, Fill, & Seal; Blown Film; Extrusion Blow Molding; Injection Blow Molding
Attribute	Ethylene Oxide Sterilisation; Good Heat Seal; Good Optical Properties; Good Processability; High Purity; Low Gel

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	0.75	g/10 min	ISO 1133-1
Density	0.923	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	260	MPa	ISO 527-1, -2
Tensile Stress at Yield	11	MPa	ISO 527-1, -2
Film			
Tensile Strength			
MD	26	MPa	ISO 527-1, -3
TD	20	MPa	ISO 527-1, -3
Tensile Strain at Break			
MD	300	%	ISO 527-1, -3
TD	600	%	ISO 527-1, -3
Hardness			
Shore Hardness, (Shore D)	48		ISO 868
Ball Indentation Hardness, (H 49/30)	18.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A/50)	96	°C	ISO 306
Peak Melting Point	111	°C	ISO 11357-3