

Technical Data Sheet

Purell PE 1840H

Low Density Polyethylene

Product Description

Purell PE 1840H is a low density polyethylene with good flexibility and delivered in pellet form. It is used by our customers mainly for small blow moulding of healthcare applications such as ampoules but can also be used in film applications and injection moulding.

Application	Blow-Fill-Seal Applications; Bottles and Vials; Caps & Closures (Healthcare); Collapsible Tubes (Healthcare); Healthcare Applications; Medical Devices; Medical Film
Market	Flexible Packaging; Healthcare; Rigid Packaging
Processing Method	Blow, Fill, & Seal; Blown Film; Extrusion Blow Molding; Injection Molding
Attribute	Ethylene Oxide Sterilisation; Good Flexibility

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	1.5	g/10 min	ISO 1133-1
Density	0.919	g/cm ³	ISO 1183-1
Bulk Density	>0.500	g/cm ³	ISO 60
Mechanical			
Tensile Modulus, (23 °C)	200	MPa	ISO 527-1, -2
Tensile Stress at Yield, (23 °C)	9.00	MPa	ISO 527-1, -2
Tensile Strain at Yield	15	%	ISO 527-1, -2
Film			
Tensile Strength			
MD	27	MPa	ISO 527-1, -3
TD	17	MPa	ISO 527-1, -3
Tensile Strain at Break			
MD	200	%	ISO 527-1, -3
TD	600	%	ISO 527-1, -3
Hardness			
Shore Hardness, (Shore D)	45		ISO 868
Ball Indentation Hardness, (H 49/30)	15.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A/50)	88	°C	ISO 306
Peak Melting Point	108	°C	ISO 11357-3