



Technical Data Sheet

Purell PE 1810E

Low Density Polyethylene

Product Description

Purell PE 1810E is a low density polyethylene with good flexibility and delivered in pellet form. The grade is used by our customers for small blow mouldings and injection moulding in healthcare market as well as for tube applications.

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 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)	0.4	g/10 min	ISO 1133-1
Density	0.920	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	200	MPa	ISO 527-1, -2
Tensile Stress at Yield	9	MPa	ISO 527-1, -2
Hardness			
Shore Hardness, (Shore D)	45		ISO 868
Thermal			
Vicat Softening Temperature, (A/50)	92	°C	ISO 306
Peak Melting Point	108	°C	ISO 11357-3