



Purell PE 1810 E

Polyethylene, Low Density

Product Description

Purell PE 1810 E 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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, 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	Ethylene Oxide Sterilisation, Good Flexibility
Typical Customer Applications	Blow-fill-seal applications, Bottles and vials, Collapsible Tubes (Healthcare), Healthcare Applications, Medical Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.920	g/cm ³
Melt flow rate (MFR) (190°C/2.16kg)	ISO 1133	0.40	g/10 min
Bulk density	ISO 60	>0.500	g/cm ³
Mechanical			
Tensile Modulus (23 °C)	ISO 527-1, -2	200	MPa
Tensile Stress at Yield (23 °C)	ISO 527-1, -2	9.00	MPa
Hardness			
Shore hardness (Shore D)	ISO 868	45	
Thermal			
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	92.0	°C
Melting Temperature	ISO 3146	108	°C

Additional Properties

Recommended film thickness: 40 to 100 µm

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

Notes

Typical properties; not to be construed as specifications.