

Technical Data Sheet

Purell PE 3020D

Low Density Polyethylene

Product Description

Purell PE 3020D is a low density polyethylene with high rigidity, good opticals and good chemical resistance. It is delivered in pellet form. The grade is used by our customers for small blow mouldings including packaging of pharmaceuticals in blow fill seal technology and injection moulding for medical devices, closures and seals.

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; Extrusion Blow Molding; Injection Molding
Attribute	Ethylene Oxide Sterilisation; Good Chemical Resistance; Good Optical Properties; High Rigidity

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	0.3	g/10 min	ISO 1133-1
Density	0.927	g/cm ³	ISO 1183-1
Bulk Density	>0.500	g/cm ³	ISO 60
Mechanical			
Tensile Modulus	300	MPa	ISO 527-1, -2
Tensile Stress at Yield	13	MPa	ISO 527-1, -2
Hardness			
Shore Hardness, (Shore D)	51		ISO 868
Thermal			
Vicat Softening Temperature, (A50)	102	°C	ISO 306
Peak Melting Point	114	°C	ISO 11357-3
Processing Parameters			
Extrusion Temperature	170 - 220	°C	