Technical Data Sheet

Purell ACP 6031 D

High Density Polyethylene

Product Description

Purell ACP 6031D is a high density polyethylene with an excellent combination of stiffness and stress crack resistance. It is delivered in pellet form containing low amount of antioxidants and used by our customers for small blow moulding applications in the pharmaceutical/ medical segment e.g. also in injection blow mouding applications as well as for the water market.

Application	Bottles and Vials; Diagnostic Applications; Healthcare Applications; Medical Devices
Market	Healthcare; Rigid Packaging
Processing Method	Extrusion Blow Molding; Injection Blow Molding; Injection Molding
Attribute	Antioxidant; Ethylene Oxide Sterilisation; High ESCR (Environmental Stress Cracking Resistance); High Rigidity

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/2.16 kg)	0.25	g/10 min	ISO 1133-1
(190 °C/5.0 kg)	1.0	g/10 min	ISO 1133-1
(190 °C/21.6 kg)	20	g/10 min	ISO 1133-1
Density	0.960	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1350	MPa	ISO 527-1, -2
Tensile Stress at Yield	30	MPa	ISO 527-1, -2
Tensile Strain at Yield	8	%	ISO 527-1, -2
FNCT, (4.0 MPa, 2% Arkopal N100, 80 °C)	3.5	hr	ISO 16770
Impact			
Tensile Impact Strength	70	kJ/m²	ISO 8256

Notes

These are typical property values not to be construed as specification limits.