Purell ACP 6031 D

Polyethylene, High Density

Product Description

Purell ACP 6031 D 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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Extrusion Blow Molding, Injection Blow Molding, Injection Molding
Features	Antioxidant, High ESCR (Environmental Stress Cracking Resistance), Ethylene Oxide Sterilisation, High Rigidity
Typical Customer Applications	Bottles and vials, Diagnostic applications, Healthcare Applications, Medical Devices

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.960	g/cm³
Melt flow rate (MFR)	ISO 1133		
(190°C/2.16kg)		0.25	g/10 min
(190°C/21.6kg)		20	g/10 min
(190°C/5.0kg)		1.0	g/10 min
Bulk density	ISO 60	>0.500	g/cm³
Mechanical			
Tensile Modulus	ISO 527-1, -2	1350	MPa
Tensile Stress at Yield	ISO 527-1, -2	30.0	MPa
Tensile Strain at Yield	ISO 527-1, -2	8	%
Tensile Impact Strength	ISO 8256	70.0	kJ/m²
Note: notched			

Additional Properties

FNCT: 3.5 MPa, 2% Arcopal, 80°C, ISO 16770: 7 h

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

Notes

Typical properties; not to be construed as specifications.