



Purell ACP 5531 B

Polyethylene, High Density

Product Description

Purell ACP 5531 B is a high density polyethylene with an excellent combination of stiffness and ESCR and a good impact resistance. It is delivered in pellet form and contains antioxidants. Typical customer applications include jerry cans for the pharmaceutical/medical segment, for packagings of dangerous goods and light weight jerry cans.

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
Features	Antioxidant, High ESCR (Environmental Stress Cracking Resistance), Good Impact Resistance , High Rigidity
Typical Customer Applications	Blow Moulding Applications, Healthcare Applications, Jerry Cans

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.954	g/cm ³
Melt flow rate (MFR)	ISO 1133		
(190°C/21.6kg)		9.5	g/10 min
(190°C/5.0kg)		0.45	g/10 min
Bulk density	ISO 60	>0.500	g/cm ³
Mechanical			
Tensile Modulus	ISO 527-1, -2	1250	MPa
Tensile Stress at Yield	ISO 527-1, -2	27.0	MPa
Tensile Strain at Yield	ISO 527-1, -2	10	%
Tensile Impact Strength	ISO 8256	90.0	kJ/m ²
Note: notched, type 1, method A, -30 °C			
Hardness			
Shore hardness (Shore D)	ISO 868	62	
Ball indentation hardness (H 132/30)	ISO 2039-1	51.0	MPa
Thermal			
Vicat softening temperature (B50 (50°C/h 50N))	ISO 306	80.0	°C

Additional Properties

Staudinger Index (ISO 1628-3): 300 ml/g
ESCR (FNCT 3.5 MPa / 80°C, 2% Arkopal N100)(ISO 16770): 40 h

Processing Temperature Range: 180 - 200 °C

Notes

Typical properties; not to be construed as specifications.