

Purell ACP 6031 D

High Density Polyethylene

LyondellBasell Industries

Message:

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 moulding applications as well as for the water market.

Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical (P & AD) and Business contacts first.

To discuss a medical/pharmaceutical application please contact: your local Distributor or your local Basell contact.

| General Information | |
|---------------------|----------------------------------|
| Additive | Antioxidant |
| Features | Antioxidant |
| | Ethylene Oxide Sterilizable |
| | High ESCR (Stress Crack Resist.) |
| | High Rigidity |
| Uses | Blow Molding Applications |
| | Bottles |
| | Medical Devices |
| | Medical/Healthcare Applications |
| | Pharmaceuticals |
| | Vials |
| Forms | Pellets |
| Processing Method | Extrusion Blow Molding |
| | Injection Blow Molding |
| | Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---------------------------|---------------|-------------------|-------------|
| Density | 0.960 | g/cm ³ | ISO 1183 |
| Apparent Density | > 0.50 | g/cm ³ | ISO 60 |
| Melt Mass-Flow Rate (MFR) | | | ISO 1133 |
| 190°C/2.16 kg | 0.25 | g/10 min | |
| 190°C/21.6 kg | 20 | g/10 min | |
| 190°C/5.0 kg | 1.0 | g/10 min | |
| FNCT ¹ (80°C) | 7.0 | hr | ISO 16770 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 1350 | MPa | ISO 527-2 |
| Tensile Stress (Yield) | 30.0 | MPa | ISO 527-2 |
| Tensile Strain (Yield) | 8.0 | % | ISO 527-2 |

| Impact | Nominal Value | Unit | Test Method |
|-------------------------|---------------------|-------------------|-------------|
| Tensile Impact Strength | 70.0 | kJ/m ² | ISO 8256/1 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 170 to 220 | °C | |
| NOTE | | | |
| 1. | 3.5 MPa, 2% Arcopal | | |

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