

Clearflex® MP D0

Very Low Density Polyethylene

Versalis S.p.A.

Message:

Clearflex MP D0 is a linear polyethylene with antioxidants, characterised by a very low density (VLDPE). The resin shows an excellent balance between flexibility and impact resistance.

Main Application

Clearflex MP D0 is suitable for injection moulding. Manufacts made by Clearflex MP D0 are characterised by a high flexibility. Clearflex MP D0 is recommended for seals and gaskets, for blend with polyolefins to modify and improve impact resistance.

| General Information | | | |
|--|-------------------------------------|-------------------|-----------------|
| Additive | Antioxidant | | |
| Features | Antioxidant | | |
| | Food Contact Acceptable | | |
| | Good Flexibility | | |
| | Good Impact Resistance | | |
| | Low Density | | |
| Uses | Blending | | |
| | Gaskets | | |
| | Seals | | |
| Agency Ratings | EU Food Contact, Unspecified Rating | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.900 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 7.5 | g/10 min | ISO 1133 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore D, Injection Molded) | 28 | | ISO 868 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ISO 527-2 |
| Yield, Injection Molded | 5.00 | MPa | |
| Break, Injection Molded | 13.0 | MPa | |
| Tensile Strain (Break, Injection Molded) | 750 | % | ISO 527-2 |
| Flexural Modulus (Injection Molded) | 60.0 | MPa | ISO 178 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | < -70.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 60.0 | °C | ISO 306/A |
| Melting Temperature | 113 | °C | Internal Method |

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature | 160 to 200 | °C |
| Middle Temperature | 160 to 200 | °C |
| Front Temperature | 160 to 200 | °C |

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