

Umincorp HDPE IM

High Density Polyethylene

Product description

UMC HDPE IM is typically used for non-food grade injection moulding applications.

Product characteristics

| | | |
|-----------------------------------------|------------------------|-------------------------------|
| Test Method used | ISO | |
| Processing method | Injection Moulding | |
| Features | 100% recycled material | |
| Typical Properties | Test Method | Unit Value¹ |
| Physical | | |
| Met flow rate (MFR) 230 °C / 2.16 kg | ISO 1133 | 3.8 g/10min |
| Density | ISO 1183 | 947 kg/m ³ |
| Ash Content at 600 °C | ISO 3451-1A | 0.36 % |
| Mechanical Properties | | |
| Tensile Strain at Yield | ISO 527-2 type 1A | 10.1 % |
| Tensile Stress at Break | ISO 527-2 type 1A | 22 MPa |
| Tensile Strain at Break | ISO 527-2 type 1A | 300 % |
| Tensile Modulus | ISO 527-2 type 1A | 925 MPa |
| Impact Properties | | |
| Charpy Notched (23 °C) | ISO 179 / 1 | 5.1 kJ/m ² |
| Charpy Notched (-30 °C) | ISO 179 / 1 | 3.3 kJ/m ² |

¹ Unit values are typical values, not to be construed as specifications