

Technical Data Sheet

Icorene 3855 GRN 6417

Polyethylene, Medium Density

Product Description

Icorene 3855 is a hexene medium density polyethylene with outstanding processability, specifically developed for rotational moulding. This grade is suitable for use in general purpose applications. It has a good balance of properties such as toughness, easy flow and stiffness.

| | |
|--------------------------|---|
| Processing Method | Rotomolding |
| Attribute | Good Processability; Good Stiffness; Good Toughness; UV Resistant |
| Forms | Powder |
| Appearance | Natural Color; Unspecified Color |
| Additive | UV Stabilizer |
| Application | Containers; General Purpose |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|-------------|
| Physical | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 5.0 | g/10 min | ASTM D1238 |
| Density | 0.938 | g/cm ³ | ASTM D1505 |
| Mechanical | | | |
| Tensile Strength at Yield | 19.0 | MPa | ISO 527 |
| Flexural Modulus | 750 | MPa | ISO 178 |
| Tensile Elongation at Break | >700 | % | ASTM D638 |
| Impact | | | |
| Drop Impact Resistance, (-20 °C, Internal Method) | 190 | J/cm | ASTM D4226 |
| Hardness | | | |
| Durometer Hardness, (Shore D) | 55 | | ASTM D2240 |
| Thermal | | | |
| Vicat Softening Temperature | 116 | °C | ISO 306 |
| Melting Temperature | 127 | °C | DSC |