

Technical Data Sheet

Icorene 3590 ATC 9817



Linear Low Density Polyethylene

Product Description

Icorene 3590 is a linear low density polyethylene specifically developed for rotational moulding. This grade is a very fast processing material suitable for use in many different applications. It has a good balance of properties such as toughness, easy flow and stiffness.

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

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|-------------|
| Physical | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 9.0 | g/10 min | ASTM D1238 |
| Density | 0.935 | g/cm ³ | ASTM D1505 |
| Mechanical | | | |
| Tensile Strength at Yield | 17.0 | MPa | ISO 527 |
| Tensile Strength at Break | 16.0 | MPa | ISO 527 |
| Environmental Stress Crack Resistance, (Condition B, F50, 100% Igepal, 50 °C) | >150 | hr | ASTM D1693 |
| Flexural Modulus | 550 | MPa | ISO 178 |
| Impact | | | |
| Drop Impact Resistance, (-20 °C, Internal Method) | 160 | J/cm | ASTM D4226 |
| Hardness | | | |
| Durometer Hardness, (Shore D) | 53 | | ISO 868 |
| Thermal | | | |
| Vicat Softening Temperature, (A (10N)) | 113 | °C | ISO 306 |
| Melting Temperature | 126 | °C | DSC |