

Icorene 3940-311 CEMENT UV15 GRY

LyondellBasell Industries - Linear Medium Density Polyethylene

General Information

Product Description

Icorene 3940 is a linear medium density polyethylene developed for rotational molding applications.

The resin is fully UV stabilized and suitable for general purpose applications. It has a good balance of properties such as toughness and stiffness.

General

| | | | |
|-------------------|---|--------------------------------------|-----------------------------------|
| Additive | • UV Stabilizer | | |
| Features | • Ablation Resistant • Good Processability | • Good Stiffness • Good Toughness | • UV Resistant • UV Stabilized |
| Uses | • Containers • General Purpose | • Outdoor Applications • Pallets | • Tanks |
| Appearance | • Black | • Colors Available | • Natural Color |
| Forms | • Pellets | • Powder | |
| Processing Method | • Rotational Molding | | |

Properties¹

| Physical | Nominal Value | Unit | Test Method |
|--|----------------|-------------------|-------------|
| Density | 0.939 to 0.941 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 3.4 to 4.0 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (ESCR) | | | ASTM D1693 |
| 10% Igepal | 50.0 | hr | |
| 100% Igepal | > 1000 | hr | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² (Yield) | 2900 | psi | ASTM D638 |
| Flexural Modulus ³ | 121000 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Impact Strength | | | ARM |
| -40°F, 0.125 in, Rotational Molded | 57 | ft-lb | |
| -40°F, 0.250 in, Rotational Molded | > 190 | ft-lb | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 144 | °F | ASTM D648 |
| Deflection Temperature Under Load 264 psi, Unannealed | 105 | °F | ASTM D648 |

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

³ 0.051 in/min