

Polyaxis CP 735-5A053G Red 186

LyondellBasell Industries - Linear Low Density Polyethylene

General Information

Product Description

Polyaxis CP 735 is a linear low density polyethylene intended for the rotational molding industry. Offers excellent ESCR and toughness. Good general purpose material and UV resistant.

General

| | | | |
|-------------------|--|--|--|
| Features | <ul style="list-style-type: none"> • Good ESCR (Stress Crack Resist.) | <ul style="list-style-type: none"> • Good Toughness | <ul style="list-style-type: none"> • UV Resistant |
| Uses | <ul style="list-style-type: none"> • General Purpose | <ul style="list-style-type: none"> • Outdoor Applications | |
| Appearance | <ul style="list-style-type: none"> • Black | <ul style="list-style-type: none"> • Tan | <ul style="list-style-type: none"> • White |
| Forms | <ul style="list-style-type: none"> • Powder | | |
| Processing Method | <ul style="list-style-type: none"> • Rotational Molding | | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|-------------|
| Density | 0.933 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 6.7 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (ESCR) | | | ASTM D1693 |
| 10% Igepal, F50 | 50.0 | hr | |
| 100% Igepal, Compression Molded, F50 | > 1000 | hr | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² (Yield, Rotational Molded) | 2610 | psi | ASTM D638 |
| Flexural Modulus - 1% Secant (Rotational Molded) | 100000 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Impact Strength | | | ARM |
| -40°F, 0.125 in, Rotational Molded | > 50 | ft-lb | |
| -40°F, 0.250 in, Rotational Molded | > 175 | ft-lb | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 136 | °F | ASTM D648 |
| Deflection Temperature Under Load 264 psi, Unannealed | 102 | °F | ASTM D648 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | HB | | UL 94 |

Notes

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

² 2.0 in/min