

Polyaxis PD 2000R NATURAL

LyondellBasell Industries - Polypropylene Copolymer

General Information

Product Description

Polyaxis PD 2000R is a polypropylene specifically designed for rotational molding.

General

| | | | |
|-------------------|----------------------|--------------|---------------------------------|
| Additive | • UV Stabilizer: No | | |
| Uses | • Bottles | • Containers | • High Temperature Applications |
| Appearance | • Natural Color | | |
| Forms | • Pellets | • Powder | |
| Processing Method | • Rotational Molding | | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|----------|-------------|
| Density / Specific Gravity | 0.902 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 20 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (ESCR) 100% Igepal, Compression Molded, F50 | > 1000 | hr | ASTM D1693 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² (Yield, Rotational Molded) | 3760 | psi | ASTM D638 |
| Tensile Elongation ² (Break, Rotational Molded) | 40 | % | ASTM D638 |
| Flexural Modulus - 1% Secant (Rotational Molded) | 187000 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Impact Strength | | | ARM |
| 73°F, 0.125 in, Rotational Molded | 15 | ft·lb | |
| 73°F, 0.250 in, Rotational Molded | 15 | ft·lb | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load 66 psi, Unannealed, Rotational Molded | 239 | °F | ASTM D648 |
| Deflection Temperature Under Load 264 psi, Unannealed, 0.125 in, Rotational Molded | 121 | °F | ASTM D648 |

Notes

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

² 2.0 in/min