

NOVAPOL® TR-0740-U

Linear Low Density Polyethylene

NOVA Chemicals

Message:

NOVAPOL®TR-0740-U is a linear low density polyethylene material. This product is available in North America and is processed by rotational molding.

NOVAPOL®The main features of the TR-0740-U are:

flame retardant/rated flame

hexene comonomer

Good processability

Antioxidants

accessible food

Typical application areas include:

food contact applications

Water pipes/pipes/drinking water

engineering/industrial accessories

outdoor applications

home apps

| General Information | |
|---------------------|---|
| UL YellowCard | E146584-102320174 |
| Additive | Antioxidation |
| | Long-term UV-8 stabilizer |
| Features | UV Stabilized |
| | Low density |
| | hexene comonomer |
| | Antioxidation |
| | Impact resistance, good |
| | Workability, good |
| | Compliance of Food Exposure |
| Uses | Engineering accessories |
| | Household goods |
| | Outdoor application |
| | Toys |
| Agency Ratings | FDA 21 CFR 176.170(c), Table 2, Cond. C |
| | FDA 21 CFR 176.170(c), Table 2, Cond. D |
| | FDA 21 CFR 176.170(c), Table 2, Cond. E |
| | FDA 21 CFR 176.170(c), Table 2, Cond. F |
| | FDA 21 CFR 176.170(c), Table 2, Cond. G |
| | FDA 21 CFR 177.1520(c) 3.2a |
| | NSF 51 |
| | NSF 61 |

| Processing Method | rotomolding | | |
|--|------------------|-------------------|-------------|
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.940 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 7.0 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (50°C, 10% Igepal, Compression Molded, F50) | 110 | hr | ASTM D1693B |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Yield, 1.90 mm, Compression Molded) | 20.6 | MPa | ASTM D638 |
| Tensile Elongation ² (Yield, 1.90 mm, Compression Molded) | 12 | % | ASTM D638 |
| Flexural Modulus - 1% Secant (Compression Molded) | 915 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| ARM Impact - Rotational Molded | | | ARM |
| -40°C, 3.18 mm | 61.0 | J | ARM |
| -40°C, 6.35 mm | 197 | J | ARM |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 60.0 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 42.0 | °C | ASTM D648 |
| Melting Temperature | 126 | °C | DSC |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | HB | | UL 94 |
| NOTE | | | |
| 1. | Type 4, 51mm/min | | |
| 2. | Type 4, 51mm/min | | |

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