

LL9450U / LL9450UP

Linear Low Density Polyethylene Resin

Special Characteristics: InnoPlus LL9450U and LL9450UP are butene co-monomer based linear low density polyethylene which are designed for rotational molding applications. These are UV8 stabilized rotational molding grades which provide a balance of flow and stiffness, good impact strength, toughness and color stability.

InnoPlus LL9450UP is a powder form of InnoPlus LL9450U

Typical Applications: InnoPlus LL9450U and LL9450UP can be used to produce variety applications such as general molding, toys & playground equipment, outdoor storage containers and water tanks.

Typical Properties:

| Properties | LL9450U / LL9450UP | Unit | Test Method |
|---|--------------------|--------------------|-------------|
| Physical Properties | | | |
| Melt Flow Rate (190 °C, 2.16 kg) | 5.0 | g/10 min | ASTM D1238 |
| Density | 0.935 | g/ cm ³ | ASTM D792 |
| Brittleness Temperature | <-70 | °C | ASTM D746 |
| Vicat Softening Point | 114 | °C | ASTM D1525 |
| Heat Distortion Temperature at 0.455 MPa | 55 | °C | ASTM D648 |
| Mechanical Properties (Compression specimens)* | | | |
| Tensile Strength at Yield | 17 | MPa | ASTM D638 |
| Tensile Strength at Break | 24 | MPa | ASTM D638 |
| Elongation at Break | 1000 | % | ASTM D638 |
| Flexural modulus | 600 | MPa | ASTM D790 |
| Durometer Hardness | 56 | Shore D | ASTM D2240 |
| Arm Impact Strength at -40°C (3 mm Rotomolded sample) | 58 | J | ARM Method |

Recommendation:

The recommended oven temperature is in the range of 260 – 290 °C

FDA Statement:

Food and Drug Administration US FDA 21 CFR 177.1520 and Commission Regulation (EU) 10/2011. More compliance regulations and standards that related to the product shall be exhibited in Product Regulatory Certificate (PRC) document.

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Note : Properties reported here are typical values of the product, not to be considered as specifications.

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