

T3804U



Linear Low Density Polyethylene

Rotational Moulding

Product Description:

LLDPE T3804U is a butene co-monomer based medium density grade produced with the latest Ineos Gas Phase polymerization Technology exhibiting following features:

- ✓ Excellent Processability
- ✓ UV (HALS) Stabilized
- ✓ High Stiffness & Impact Strength
- ✓ Excellent Internal & External Surface finish

LLDPE T3804U is recommended for following applications:

- ✓ Overhead water tanks
- ✓ Storage bins
- ✓ Toys and traffic barriers
- ✓ Sanitation & Agriculture products
- ✓ Rotomolding applications requiring outdoor exposure

Typical Properties:

| Sr. No. | Properties | Test Method | Units | Values* |
|--|---|--------------|--------------------|---------|
| Physical Properties | | | | |
| 1 | Melt Flow Index (190°C & 2.16 kg) | ASTM D1238 | g/10 min | 4.0 |
| 2 | Density (at 23 °C) | ASTM D1505 | gm/cm ³ | 0.938 |
| Mechanical Properties | | | | |
| 3 | Tensile Strength @ Yield (50mm / min) | ASTM D638 | MPa | 15 |
| 4 | Elongation @ Break (50mm / min) | ASTM D638 | % | >500 |
| 5 | Flexural Modulus | ASTM D 790A | MPa | 280 |
| 6 | Notched Izod Impact Strength | ASTM D 256A | J/m | 650 |
| 7 | ESCR (F ₅₀ , 10% Igepal Soln. v/v) | ASTM D 1693B | Hours | 200 |
| 8 | Vicat Softening Point (10N) | ASTM D 1525 | °C | 117 |
| ** Mechanical Properties tested on Injection molded specimen in accordance with ASTM D4101 and conditioned as per ASTM D618. | | | | |
| * Typical Values and not to be taken as specification limits, values may change without any prior notice. | | | | |

Recommended Processing Temperature: 180 – 230 °C

Note: This product is not to be used in the manufacture of SUP (Single Use Plastic) items prohibited under PWM (Plastics Waste Management) Rules, 2016.

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Regulatory Requirements:

LLDPE grade T3804U shall meet the requirements stipulated in IS 10146:1982 on 'Specification of Polyethylene for safe use in contact with Foodstuff, Pharmaceutical & Drinking water'. The grade and Additives incorporated in this grade shall meet the positive list of constituents as prescribed in IS 10141:1982. The Grade and the additives incorporated in it shall also comply with the FDA: CFR Title 21,177.1520, Olefin Polymers.

Storage & Handling:

Prevent Polyethylene Material from direct exposure to sunlight & heat to avoid quality deterioration. The storage location should be dry, dust free and the Storage temperature should not exceed 50 °C. Non - compliance to these precautionary measures can lead to degradation of the product causing Color changes, Odor & inadequate product performance.

Health and Safety Information:

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at www.opalindia.in. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.



ONGC Petro additions Ltd

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