# **Provisional Technical Datasheet**

# **T3804U**



**Rotational Moulding** 

# Linear Low Density Polyethylene

# **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 <sup>0</sup> C)	ASTM D1505	gm/cm <sup>3</sup>	0.938
Mechanical Properties				
3	Tensile Strength @ Yield (50mm / min)	ASTM D638	MPa	18
4	Elongation @ Break (50mm / min)	ASTM D638	%	>500
5	Flexural Modulus	ASTM D 790A	Мра	650
6	Notched Izod Impact Strength	ASTM D 256A	J/m	300
7	ESCR (F <sub>50</sub> ,10% Igepal Soln. v/v)	ASTM D 1693B	Hours	200
8	Vicat Softening Point (10N)	ASTM D 1525	O <sub>0</sub>	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

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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.



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