

# M6008U



## High Density Polyethylene

## Injection Molding

### Product Description:

HDPE M6008U is a natural colored grade produced with the latest Ineos Gas Phase polymerization

Technology exhibiting following features:

- ✓ Excellent Mechanical Properties
- ✓ Good dimensional stability
- ✓ Good aesthetics of finished products
- ✓ UV Stabilized

HDPE M6008U is recommended for following applications:

- ✓ Material handling crates, Pellets
- ✓ Pails
- ✓ Helmets
- ✓ Luggage shells

### Typical Properties:

| Sr. No.  | Properties                            | Test Method | Units              | Values* |
|--|---------------------------------------|-------------|--------------------|---------|
| <b>Physical Properties</b>   |                                       |             |                    |         |
| 1  | Melt Flow Index ( 190°C & 2.16 kg)    | ASTM D1238  | g / 10 min         | 8.0     |
| 2  | Density (at 23 °C)                    | ASTM D1505  | gm/cm <sup>3</sup> | 0.960   |
| <b>Mechanical Properties</b>   |                                       |             |                    |         |
| 3  | Tensile Strength @ Yield (50mm / min) | ASTM D638   | MPa                | 28.0    |
| 4  | Elongation @ Break (50mm / min)       | ASTM D638   | %                  | >700    |
| 5  | Flexural Modulus                      | ASTM D790   | Mpa                | 900     |
| 6  | Flexural Yield Strength               | ASTM D790   | Mpa                | 20      |
| 7  | Izod Impact Strength (at 23 °C)       | ASTM D256   | J/m                | 85      |
| 8  | Charpy Impact Strength                | ISO 179-1   | KJ/m <sup>2</sup>  | 6.0     |
| 9  | Hardness                              | ASTM D2240  | Shore D            | 65      |
| <b>Thermal Properties</b>  |                                       |             |                    |         |
| 10   | Vicat Softening Point (10N)           | ASTM D1525  | °C                 | 128     |
| ** 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: 190 – 220 °C**

**Disclaimer:** OPaL assumes no liability whatsoever in respect of application, processing or any use made of the afore - mentioned information or products, or any consequence thereof. The user undertakes all liability in respect of the application, processing or use of the afore - mentioned information or product, whose quality and other properties he shall verify, or any consequence thereof. No liability whatsoever shall be attached to any of the OPaL companies for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of application, processing or use of the afore-mentioned information or products by the user.

Contact: ONGC Petro Additions Ltd., Polymer Marketing Group: 1st Floor, Omkara Complex, Sai Chowkdi, Manjalpur, Vadodara 390011, Gujarat, India  
Telephone: +91 265 6192600, Fax: +91 265 6192666, Corporate Site: [www.opalindia.in](http://www.opalindia.in) PARC/2016/03 - 00

## Provisional Technical Datasheet

# M6008U



### **Regulatory Requirements:**

HDPE grade M6008U 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](http://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**

**Disclaimer:** OPaL assumes no liability whatsoever in respect of application, processing or any use made of the afore - mentioned information or products, or any consequence thereof. The user undertakes all liability in respect of the application, processing or use of the afore - mentioned information or product, whose quality and other properties he shall verify, or any consequence thereof. No liability whatsoever shall attached to any of the OPaL companies for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of application, processing or use of the afore-mentioned information or products by the user.

Contact: **ONGC Petro Additions Ltd., Polymer Marketing Group: 1st Floor, Omkara Complex, Sai Chowkdi, Manjalpur, Vadodara 390011, Gujarat,India**  
Telephone: +91 265 6192600, Fax: +91 265 6192666, Corporate Site: [www.opalindia.in](http://www.opalindia.in) PARC/2016/03 - 00