

## TECHNICAL DATA SHEET

## 73204T

**73204T** is a LLDPE Roto Molding Grade produced by the Spherilene Technology with controlled morphology, excellent balance of processability, mechanical properties.

**73204T** is ideally suited for Tanks & Containers for domestic & industrial water storage, sanitation & agriculture.

**BIS Designation Code:** IS 7328-2B-RBO-CDC

| Property                                      | Test Method                             | Unit              | Nominal Value |
|---|---|-------------------|---------------|
| Melt Flow Index (2.16 kg, 190°C)              | ASTM D1238,<br>IS 13360 (Part 4/Sec 1)  | g/10 min          | 5.0           |
| Melt Flow Index (5 kg, 190°C)                 |   |                   | 14            |
| Melt Flow Index (21.6 kg, 190°C)              | ASTM D1238                              | g/10 min          | 120           |
| Density (23°C)                                | ASTM D1505,<br>IS 13360 (Part 3/Sec 11) | g/cm <sup>3</sup> | 0.932         |
| Density (23°C)                                | IS 2530                                 | g/cm <sup>3</sup> | 0.932 – 0.934 |
| <b>Physical Property</b>                      |   |                   |               |
| Tensile Strength at Yield                     | ASTM D638<br>(50 mm/min)                | MPa               | 17            |
| Elongation at Break                           |   | %                 | 850           |
| Notched Izod Impact Strength (23°C)           | ASTM D256A                              | J/m               | 500           |
| Flexural Modulus                              | ASTM D790A                              | MPa               | 400           |
| Vicat Softening Point (10 N)                  | ASTM D1525                              | °C                | 109           |
| DSC Melting Temperature                       | ASTM D3418                              | °C                | 126           |
| ESCR (F <sub>50</sub> , 10% Igepal soln. v/v) | ASTM D1693B                             | Hr                | 500           |
| <b>Suggested Processing Conditions</b>        |   |                   |               |
| Oven Temperature                              | 240 – 280 °C                            |                   |               |

\* Halene L is the registered trademark of Linear Low-Density Polyethylene of Haldia Petrochemicals Limited

Mechanical Properties are on Injection Molded test specimens.

This grade meets the requirements of:

IS 7328:2020 Specification for Polyethylene Material for Moulding and Extrusion

IS 16738:2018 Positive List of Constituents for Polypropylene, Polyethylene and their Copolymers for its Safe Use in Contact with Foodstuffs and Pharmaceuticals

IS 10146 for use in contact with foodstuffs, pharmaceuticals, and drinking water.

*This product is not recommended for manufacturing of Single Use Plastic (SUP) items listed under Plastics Waste Management (PWM) Rule 2016 and its latest amendment*

*The information and data presented herein are typical values of representative samples and should not be construed as specification or tested values of supplied product. Prior to use, buyer shall ensure independently through tests and trials, that HPL products can be handled and used by them legally, safely, and suitably for their intended operation and end-use application. No warranty or guarantee expressed or implied is made regarding performance or otherwise. In no event shall HPL be liable for any damage, loss or injury directly or indirectly suffered as a result of use of product or information provided herein. The information & data contained herein are reliable to the best of our knowledge on the date of release of the document and is subject to change without prior intimation based on research & development work undertaken by HPL*

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