

## TECHNICAL DATA SHEET

## 73005TU

**73005TU** is a LLDPE Roto Molding Grade produced by the Spherilene Technology with controlled morphology, excellent balance of processability, mechanical properties & UV stability

This grade is stabilized adequately with Light Stabilizer + to give a long service life under outdoor exposure

**73005TU** is ideally suited for Tanks & Containers with good UV stability for domestic & industrial water storage, sanitation & agriculture

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

Property	Test Method	Unit	Value
Melt Flow Index (2.16 kg, 190°C)	ASTM D1238, 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, IS 13360 (Part 3/Sec 11)	g/cm <sup>3</sup>	0.934
Density (23°C)	IS 2530	g/cm <sup>3</sup>	0.932 – 0.936
<b>Physical Property</b>			
Tensile Strength at Yield	ASTM D638 (50 mm/min)	MPa	17
Elongation at Break		%	500
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	350
Flexural Modulus	ASTM D790A	MPa	450
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	74
Vicat Softening Point (10 N)	ASTM D1525	°C	111
DSC Melting Temperature	ASTM D3418	°C	126
ESCR (F <sub>50</sub> , 10% Igepal soln. v/v)	ASTM D1693B	Hr	100
<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 prepared as per ASTM D4101

+ The total Light Stabilizer content is ~2000 ppm



## Halene – L\*

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*

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