

## TECHNICAL DATA SHEET

## R5801

**R5801** is a HDPE grade for stretched tape / raffia application produced by Mitsui CX Process

**R5801** combines excellent processability with high mechanical strength

**R5801** is recommended for Stretched Tape / Raffia for Woven sacks and Tarpaulin

**BIS Designation Code:** IS 7328-3P-TB-GXDA

Property	Test Method	Unit	Nominal Value
Melt Flow Index (2.16 kg, 190°C)	ASTM D1238, IS 13360 (Part 4/Sec 1)	g/10 min	0.50
Melt Flow Index (5 kg, 190°C)		g/10 min	1.8
Melt Flow Index (21.6 kg, 190°C)		g/10 min	30
Density (23°C, Annealed)	ASTM D1505, IS 13360 (Part 3/Sec 11)	g/cm <sup>3</sup>	0.960
Density (23°C, Annealed)	JIS MCI HZ-F-109	g/cm <sup>3</sup>	0.961
<b>Physical Property</b>			
Tensile Strength at Yield	ASTM D638 (50 mm/min)	MPa	32
Tensile Strength at Break		MPa	38
Elongation at Break		%	800
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	200
Flexural Modulus	ASTM D790A	MPa	1150
Hardness	ASTM D2240	Shore D	65
Vicat Softening Point (10 N)	ASTM D1525	°C	124
DSC Melting Temperature	ASTM D3418	°C	131
<b>Suggested Processing Conditions</b>			
Barrel Temperature	200 – 240 °C		
Die Temperature	220 – 240 °C		
Quench Temperature	25 – 30 °C		

\*Halene H is the registered trademark of High-Density Polyethylene of Haldia Petrochemicals Limited

Mechanical Properties are on specimens from Compression Molded sheet prepared in accordance with ASTM D4703

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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