HALDIA PETROCHEMICALS LTD

Halene – H*

TECHNICAL DATA SHEET E5201S

E5201S is a broad molecular weight distribution HDPE Grade produced by Mitsui CX Process

E5201S combines exceptional processability and excellent mechanical properties

E5201S is recommended for General Purpose Blow Molding Applications. It can also be used for Double Walled Corrugated Pipes & General-Purpose Pipe Applications

BIS Designation Code: IS 7328-3B-BB-FXDA

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	0.35
Melt Flow Index (5 kg, 190°C)		g/10 min	1.6
Melt Flow Index (21.6 kg, 190°C)		g/10 min	32
Density (23°C, Annealed)	ASTM D1505, IS 13360 (Part 3/Sec 11)	g/cm^3	0.954
Density (23°C, Annealed)	JIS MCI HZ-F-109	g/cm^3	0.958
Physical Property			
Tensile Strength at Yield	ASTM D638 (50 mm/min)	MPa	25
Elongation at Yield		%	9
Tensile Strength at Break		MPa	36
Elongation at Break		%	900
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	100
Flexural Modulus	ASTM D790A	MPa	1100
Hardness	ASTM D2240	Shore D	65
ESCR (F_{50}, 10% Igepal soln. v/v)	ASTM D1693B	Hr	250
Vicat Softening Point (10 N)	ASTM D1525	°C	125
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	70
DSC Melting Temperature	ASTM D3418	°C	130

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Suggested Processing Conditions	
Barrel Temperature	150 – 160 °C
Die Temperature	160 – 165 °C
Parison Temperature	165 – 170 °C
Cooling Water for Mold	20 – 25 °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.

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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