

TECHNICAL DATA SHEET
E5201
E5201 is a broad molecular weight distribution HDPE Grade produced by Mitsui CX Process

E5201 combines exceptional processability with high ESCR and excellent mechanical properties

E5201 is particularly recommended for High ESCR Blow Molding, Cable Sheathing & Jacketing Compound, Lamination Film, General Purpose Film and Extrusion Applications

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

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	0.950
Density (23°C, Annealed)	JIS MCI HZ-F-109	g/cm ³	0.952

Physical Property

Tensile Strength at Yield	ASTM D638 (50 mm/min)	MPa	25
Elongation at Yield		%	7
Tensile Strength at Break		MPa	34
Elongation at Break		%	850
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	120
Flexural Modulus	ASTM D790A	MPa	1000
Hardness	ASTM D2240	Shore D	65
ESCR (F ₅₀ , 10% Igepal soln. v/v)	ASTM D1693B	Hr	>600
Vicat Softening Point (10 N)	ASTM D1525	°C	122
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	60
DSC Melting Temperature	ASTM D3418	°C	130

Suggested Processing Conditions	
Barrel Temperature	150 – 160 °C
Die Temperature	160 – 165 °C
Parison Temperature	160 – 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 tested on specimens from Compression Molded sheets

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

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