

TECHNICAL DATA SHEET

E5201

E5201 is a broad molecular weight distribution HDPE, produced by the Mitsui CX Process.

This resin is particularly recommended for high ESCR Blow Molding, Cable Sheathing & Jacketing Compound, Lamination Film, General Purpose Film and Extrusion Applications.

E5201 combines exceptional processability with high ESCR and excellent mechanical properties.

Property	Test Method	Unit	Value
Melt Flow Index (2.16 kg, 190°C)	ASTM D 1238	g/10 min	0.35
Density (23°C)	ASTM D 1505	g/cm ³	0.952
Physical Property			
Tensile Strength at Yield		MPa	23
Tensile Strength at Break	ASTM D 638 (50 mm/min)	MPa	34
Elongation at Break		%	>1000
Notched Izod Impact Strength (23°C)	ASTM D 256A	J/m	140
Flexural Modulus	ASTM D 790A	MPa	950
Hardness	ASTM D 2240	Shore D	61
ESCR (F ₅₀ , 10% Igepal soln. v/v)	ASTM D 1693B	Hr	>600
Vicat Softening Point (10N)	ASTM D 1525	°C	125
Heat Deflection Temperature (0.455 MPa)	ASTM D 648	°C	78
DSC Melting Temperature	ASTM D 3418	°C	130

Suggested Processing Conditions

Barrel Temperature	°C	150/160/160
Die Temperature	°C	160 – 165
Parison Temperature	°C	160 – 170
Cooling Water for Mold	°C	20 – 25

* Halene H is the registered trademark of High Density Polyethylene of HPL

Mechanical Properties are on specimens from Compression Molded sheets

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