

TECHNICAL DATA SHEET

E5201

E5201 is a broad molecular weight distribution HDPE, produced by the 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

Property	Test Method	Unit	Value
Melt Flow Index (2.16 kg, 190°C)	ASTM D1238	g/10 min	0.35
Density (23°C)	ASTM D1505	g/cm ³	0.952
Physical Property			
Tensile Strength at Yield		MPa	23
Tensile Strength at Break	ASTM D638 (50 mm/min)	MPa	34
Elongation at Break		%	> 650
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	140
Flexural Modulus	ASTM D790A	MPa	900
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	125
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	78
DSC Melting Temperature	ASTM D3418	°C	130
Suggested Processing Conditions			
Barrel Temperature		°C	150 - 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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