

TECHNICAL DATA SHEET

F5400

F5400 is a film grade HM-HDPE produced by the Mitsui CX Technology

F5400 can be used for general-purpose Films as well as very thin Reinforced bags

F5400 grade is characterized by excellent processability and high mechanical strength

Property	Test Method	Unit	Value
Melt Flow Index (2.16 kg, 190°C)	ASTM D1238	g/10 min	0.09
Melt Flow Index (21.6 kg, 190°C)			14
Density (23°C)	ASTM D1505	g/cm ³	0.954
Physical Property			
Tensile Strength at Yield		MPa	25
Tensile Strength at Break	ASTM D638 (50 mm/min)	MPa	38
Elongation at Break		%	> 650
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	180
Hardness	ASTM D2240	Shore D	65
ESCR (F ₅₀ , 10% Igepal soln. v/v)	ASTM D1693B	Hr	>500
Dart Impact Strength**	ASTM D1709A	g	80
DSC Melting Temperature	ASTM D3418	°C	131
Suggested Processing Conditions			
Barrel Temperature		°C	180 – 220
BUR		-	4 - 6

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

Mechanical Properties are on specimens from Compression Molded sheets

** Dart Impact Strength tested on 20 micron blown film made with BUR 4.0

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