

TECHNICAL DATA SHEET

F5400

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

This 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 D 1238	g/10 min	0.09
Melt Flow Index (21.6 kg, 190 °C)			14
Density (23 °C)	ASTM D 1505	g/cm ³	0.954
Physical Property			
Tensile Strength at Yield		MPa	25
Tensile Strength at Break	ASTM D 638 (50 mm/min)	MPa	38
Elongation at Break		%	1000
Notched Izod Impact Strength (23 °C)	ASTM D 256A	J/m	180
Hardness	ASTM D 2240	Shore D	62
ESCR (F ₅₀ , 10% Igepal soln. v/v)	ASTM D 1693B	Hr	>500
Dart Impact Strength**	ASTM D 1709A	g	80
DSC Melting Temperature	ASTM D 3418	°C	131
Suggested Processing Conditions			
Barrel Temperature		°C	180 – 220
BUR		-	3 – 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

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