



Halene – H*

TECHNICAL DATA SHEET

Y 5401

Y 5401 is a HDPE monofilament grade produced by the Mitsui CX Technology. This grade is characterized by excellent processability and high mechanical strength.

Y 5401 can be used for stretch tapes, raffia and yarns for woven sacks & tarpaulin.

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Properties	Test Method	Unit	Value
Melt Flow Index (2.16 kg, 190° C)	ASTM D 1238	g/10 min	0.80
Density (at 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	MPa	33
Elongation at Break**		%	>500
Izod Impact Strength (Notch, 23 ⁰ C)	ASTM D 256	J/m	400
Vicat Softening Point (10N)	ASTM D 1525	°C	122
Hardness	ASTM D 2240	Shore D	63
DSC Melting Temperature	ASTM D 2117	°C	131
Brittleness Temperature	ASTM D 746	°C	<-60

Suggested Processing Conditions

Barrel Temperature	°C	200 - 240
Die Temperature	°C	250 - 260
Quench Temperature	°C	30
Stretching Temperature	°C	~ 98 (Water)

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

** Tensile Properties are on Compression Molded Type IV Specimens as per ASTM D 638

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