

Halene H Y5401

High Density Polyethylene

Haldia Petrochemicals Ltd.

Technical Data

Product Description

Y5401 is a HDPE monofilament grade produced by the Mitsui CX Technology. This grade is characterized by excellent processability and high mechanical strength.

Y5401 can be used for stretch tapes, raffia and yarns for woven sacks & tarpaulin.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• Asia Pacific		
Features	• General Purpose	• Good Processability	
Uses	• Monofilaments	• Tape	• Yarn
Forms	• Pellets		

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.954 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80 g/10 min	ASTM D1238

Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³		ASTM D638
Yield, Compression Molded	25.0 MPa	
Break, Compression Molded	35.0 MPa	
Tensile Elongation ³		ASTM D638
Break, Compression Molded	> 500 %	

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		ASTM D256A
23°C, Compression Molded	250 J/m	

Hardness	Nominal Value Unit	Test Method
Durometer Hardness		ASTM D2240
Shore D, Compression Molded	63	

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	122 °C	ASTM D1525 ⁴
Peak Melting Temperature	131 °C	ASTM D3418

Extrusion	Nominal Value Unit
Cylinder Zone 1 Temp.	200 to 240 °C
Cylinder Zone 2 Temp.	200 to 240 °C
Cylinder Zone 3 Temp.	200 to 240 °C
Cylinder Zone 4 Temp.	200 to 240 °C
Cylinder Zone 5 Temp.	200 to 240 °C
Die Temperature	250 to 260 °C

Extrusion Notes

Quench Temperature: 30°C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 50 mm/min

⁴ Loading 1 (10 N)