

# Halene H HD T10

High Density Polyethylene

Haldia Petrochemicals Ltd.

Message:

HD T10 is a HDPE yarn/monofilament grade produced by Spherilene Technology.  
This grade can be used in yarns/monofilament for Fabrics, Nets, Twines & Ropes.  
HD T10 is characterized by excellent processability and mechanical strength.

General Information			
Features	High strength		
	Workability, good		
Uses	Twine		
	monofilament		
	Rope		
	Web		
	Line		
	Fabric		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup>	0.950	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.1	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup>			ASTM D638
Yield, molding	21.0	MPa	ASTM D638
Fracture, molding	38.0	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, Compression Molded)	> 1000	%	ASTM D638
Flexural Modulus	1000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	131	°C	ASTM D3418
Extrusion	Nominal Value	Unit	Test Method
Cylinder Zone 1 Temp.	200 - 240	°C	
Cylinder Zone 2 Temp.	200 - 240	°C	

Cylinder Zone 3 Temp.	200 - 240	°C
Cylinder Zone 4 Temp.	200 - 240	°C
Cylinder Zone 5 Temp.	200 - 240	°C
Die Temperature	230 - 250	°C

#### Extrusion instructions

Quench Temperature: 30°C Stretching Temperature: 95 to 120°C

#### NOTE

1.	23°C
2.	Type 4
3.	Type 4

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#### Recommended distributors for this material

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