

Hanwha Total PE Y910A

High Density Polyethylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

Y910A is a high-density polyethylene resin for stretched yarn applications. This grade is designed to be processed in conventional extrusion stretching equipment.

General Information			
Features	Low speed solidification crystal point		
	High ESCR (Stress Cracking Resistance)		
	High tensile strength		
	High density		
	Workability, good		
	Good stretchability		
	Good wear resistance		
	Thermal stability, good		
Uses	Bags		
	Monochrome high toughness line		
	monofilament		
	Rope		
	Web		
	Fishery application		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	50		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	24.5	MPa	ASTM D638
Fracture	34.3	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Apparent Bending Modulus	883	MPa	ASTM D747
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	125	°C	ASTM D1525 ¹
Extrusion	Nominal Value	Unit	
Drying Temperature	30.0 - 70.0	°C	
Cylinder Zone 1 Temp.	180 - 220	°C	
Cylinder Zone 2 Temp.	180 - 220	°C	
Cylinder Zone 3 Temp.	180 - 220	°C	
Cylinder Zone 4 Temp.	180 - 220	°C	
Cylinder Zone 5 Temp.	180 - 220	°C	
Adapter Temperature	230 - 260	°C	
Die Temperature	230 - 260	°C	
Extrusion instructions			
Stretching Temperature: 100 °CStretching Ratio: 9 to 12 times			
NOTE			
1.	压力1 (10N)		

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