

Hanwha Total PE P110PT12

High Density Polyethylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

P110PT12 is a high-density polyethylene resin for PEX-A crosslinked pipes. This resin is supplied in powder form and to be processed by ram-extruder type equipment after mixed with crosslinking agents.

General Information			
Features	High density		
	Workability, good		
	Crosslinkable		
	Good creep resistance		
	Good flexibility		
	Low temperature impact resistance		
	Excellent appearance		
Uses	Piping system		
	Foam		
Forms	Powder		
Processing Method	Plunger press-out		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.021	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	26.5	MPa	ASTM D638
Fracture	35.3	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Apparent Bending Modulus	834	MPa	ASTM D747
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-80.0	°C	ASTM D746
Vicat Softening Temperature	120	°C	ASTM D1525 ¹
Additional Information			
Average Particle Size: 140 μHydrostatic Pressure Test, ASTM F876, DIN 16892, 12 MPa, 20°C: >1 hrsHydrostatic Pressure Test, ASTM F876, DIN 16892, 4.56 MPa, 93.3°C: >1000 hrsHydrostatic Pressure Test, ASTM F876, DIN 16892, 4.80 MPa, 95°C: >1 hrsHydrostatic Pressure Test, ASTM F876, DIN 16892, 4.4 MPa, 95°C: >1000 hrsDegree of Crosslink, ASTM F876, DIN 16892: >75 %			
Extrusion	Nominal Value	Unit	

Hopper Temperature	23.0	°C
Adapter Temperature	140 - 160	°C
Die Temperature	240 - 260	°C

Extrusion instructions

Crossbox Temperature90 to 110 °C

NOTE

1. 压力1 (10N)

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