

Hanwha Total PE F120U

High Density Polyethylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

F120U is a high-density polyethylene resin for films. This grade is designed to be processed in conventional blown film equipment. F120U is generally used for mulching films because of high UV stabilizer content in the additive formulation.

General Information			
Additive	UV stabilizer		
Features	High molecular weight		
	High tensile strength		
	High density		
	Optical		
	Workability, good		
	Good weather resistance		
Uses	General		
	Packaging		
	Films		
	Bags		
	Agricultural application		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.044	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	55		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	22.6	MPa	ASTM D638
Fracture	29.4	MPa	ASTM D638
Apparent Bending Modulus	981	MPa	ASTM D747
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	μm	
Tensile Strength			ASTM D882
MD: Break, 20 μm	53.9	MPa	ASTM D882
TD: Break, 20 μm	49.0	MPa	ASTM D882

Tensile Elongation			ASTM D882
MD: Break, 20 μm	380	%	ASTM D882
TD: Break, 20 μm	450	%	ASTM D882
Dart Drop Impact (20 μm)	200	g	ASTM D1709
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	290	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-80.0	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525 ¹
Additional Information			
Elmendorf Tear Strength MD, ASTM D785: 6 kg force/cm ² Elmendorf Tear Strength TD, ASTM D785: 200 kg force/cm ²			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	160 - 190	°C	
Cylinder Zone 2 Temp.	160 - 190	°C	
Cylinder Zone 3 Temp.	160 - 190	°C	
Cylinder Zone 4 Temp.	160 - 190	°C	
Cylinder Zone 5 Temp.	160 - 190	°C	
Die Temperature	180 - 210	°C	
Extrusion instructions			
Blow up ratio: 3 to 6 Frost Line Height: 40 to 120 cm			
NOTE			
1. 压力1 (10N)			

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