

Hanwha Total PE 520A

Low Density Polyethylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

520A is a low-density polyethylene resin for extrusion coating applications. This grade is designed for cionventional t-die extrusion coating process.

General Information	
Additive	High smoothness UV stabilizer
Features	Low density High smoothness Workability, good Good strength Good weather resistance
Uses	Films Blow molding applications Agricultural application
Forms	Particle
Processing Method	Blow molding Extrusion coating

Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	13.7	MPa	ASTM D638
Tensile Elongation (Break)	720	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	μm	
Tensile Strength			ASTM D882
MD: Break, 50 μm	21.6	MPa	ASTM D882
TD: Break, 50 μm	17.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 50 μm	320	%	ASTM D882
TD: Break, 50 μm	620	%	ASTM D882
Dart Drop Impact (50 μm)	110	g	ASTM D1709

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	89.0	°C	ASTM D1525 ¹
Melting Temperature	110	°C	
Optical	Nominal Value	Unit	Test Method
Haze (50.0 μm)	10	%	ASTM D1003

Blocking, SAMSUNG TOTAL: 350 g/10cm³

Cylinder Zone 1 Temp.	180 - 190	°C
Cylinder Zone 2 Temp.	180 - 190	°C
Cylinder Zone 3 Temp.	180 - 190	°C
Cylinder Zone 4 Temp.	180 - 190	°C
Cylinder Zone 5 Temp.	180 - 190	°C
Die Temperature	170 - 180	°C

Blow up ratio: 1 to 2

1. 压力1 (10N)

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