

FINGERPRINT™ MDPE 7520 NT

Polyethylene Resin

The Dow Chemical Company

Message:

FINGERPRINT™MDPE-7520 NT is a kind of Unipol™Bimodal polyethylene resin prepared by process II. This product is used for the processing of micro-irrigation tapes with thin-walled structures.

Main features:

excellent drop impact strength

good extrusion performance

Excellent surface appearance

slip agent content: none

opening agent content: none

General Information			
Additive	Processing aid		
Forms	Particle		
Processing Method	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	> 0.15	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	130	µm	
Film Puncture Energy ¹ (130 µm)	6.10	J	Internal method
Film Puncture Force ² (130 µm)	146	N	Internal method
secant modulus ³			ASTM D882
1% secant, MD: 130 µm	552	MPa	ASTM D882
2% secant, MD: 130 µm	448	MPa	ASTM D882
1% secant, TD: 130 µm	658	MPa	ASTM D882
2% secant, TD: 130 µm	527	MPa	ASTM D882
Tensile Strength ⁴			ASTM D882
MD: Yield, 130 µm	18.8	MPa	ASTM D882
TD: Yield, 130 µm	23.6	MPa	ASTM D882
MD: Fracture, 130 µm	37.4	MPa	ASTM D882
TD: Fracture, 130 µm	48.3	MPa	ASTM D882
Tensile Elongation ⁵			ASTM D882
MD: Fracture, 130 µm	580	%	ASTM D882
TD: Fracture, 130 µm	700	%	ASTM D882
Dart Drop Impact ⁶			
130 µm	510	g	ASTM D1709A
130 µm	400	g	ASTM D1709B
Elmendorf Tear Strength ⁷			ASTM D1922
MD : 130 µm	640	g	ASTM D1922

TD : 130 μm	1900	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss ⁸ (45°, 127 μm)	7		ASTM D2457
Haze ⁹ (127 μm)	76	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	243	°C	
Extrusion instructions			

吹塑薄膜的制造条件:

挤塑机尺寸:2.5 英寸 (63.5mm);30:1 L/D 比率

桶类型:平滑内腔

熔体温度:470°F (243°C)

模具直径:6 英寸

放大比:2.1 比 1

NOTE	
1.	2.1:1 BUR
2.	2.1:1 BUR
3.	2.1:1 BUR
4.	2.1:1 BUR
5.	2.1:1 BUR
6.	2.1:1 BUR
7.	Method B;2.1:1 BUR
8.	2.1:1 BUR
9.	2.1:1 BUR

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