

Hanwha Total PE 4220U

Linear Low Density Polyethylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

4220U is a linear low-density polyethylene butene comonomer resin for agricultural films and heavy-duty packaging films. 4220U is a mulching film. This grade is designed to be processed in conventional blown film equipment.

General Information			
Features	Butene Comonomer		
	Good Heat Seal		
	Good Processability		
	Good Weather Resistance		
	High Impact Resistance		
	High Tensile Strength		
	Low Density		
	Opticals		
	Puncture Resistant		
Uses	Agricultural Applications		
	Blending		
	Film		
	Packaging		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	ASTM D882
Tensile Strength			
MD : Yield,38 µm	9.81	MPa	
TD : Yield,38 µm	10.8	MPa	
MD : Break, 38 µm	40.2	MPa	
TD : Break, 38 µm	31.4	MPa	
Tensile Elongation			ASTM D882
MD : Break, 38 µm	620	%	
TD : Break, 38 µm	840	%	
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	150	g	

TD : 25 μm	370	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525 ¹
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 μm)	55		ASTM D2457
Haze (38.0 μm)	12	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 to 200	°C	
Cylinder Zone 2 Temp.	180 to 200	°C	
Cylinder Zone 3 Temp.	180 to 200	°C	
Cylinder Zone 4 Temp.	180 to 200	°C	
Cylinder Zone 5 Temp.	180 to 200	°C	
Die Temperature	200 to 210	°C	
NOTE			
1.	Loading 1 (10 N)		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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