

Hanwha Total PE E153A

Ethylene Vinyl Acetate Copolymer
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:
E153A is a EVA (ethylene-vinylacetate copolymer) resin for agricultural greenhouse films. This grade is designed to be processed in conventional blown film equipment.

General Information			
Features	Anti-condensation		
	High strength		
	Copolymer		
	Optical		
	Impact resistance, high		
	Dispersible		
	Workability, good		
	Definition, high		
Uses	Films		
	Agricultural application		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.2	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, F50)	500	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	38		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	20.6	MPa	ASTM D638
Tensile Elongation (Break)	750	%	ASTM D638
Apparent Bending Modulus	53.9	MPa	ASTM D747
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	64.0	°C	ASTM D1525 ¹
Melting Temperature	90.0	°C	
Additional Information			
VA Content, SAMSUNG TOTAL: 15 kg force/cm ²			

Extrusion	Nominal Value	Unit
Hopper Temperature	23.0	°C
Cylinder Zone 1 Temp.	130 - 170	°C
Cylinder Zone 2 Temp.	130 - 170	°C
Cylinder Zone 3 Temp.	130 - 170	°C
Cylinder Zone 4 Temp.	130 - 170	°C
Cylinder Zone 5 Temp.	130 - 170	°C
Adapter Temperature	140 - 180	°C
Die Temperature	150 - 180	°C
NOTE		

1. 压力1 (10N)

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