Hanwha Total PE E180F

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

Message:

E180F is a EVA (ethylene-vinylacetate copolymer) resin for crosslinked foam applications including mid-sole and in-sole of athletic shoes. This grade is designed to be processed in conventional kneading and rolling equipment for mixing and dispersing crosslinking agent and foaming agent.

General Information			
Features	Low compressive deformability		
	Copolymer		
	Dispersible		
	Workability, good		
	Crosslinkable		
	Good tear strength		
Uses	Electronic insulation		
	Composite		
	Foam		
	Footwear		
Forms	Particle		
Processing Method	Composite		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ACTM D1220
-		9, 10 111111	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, F10)	500	hr	ASTM D1693
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Environmental Stress-Cracking Resistance (50°C, F10) Hardness	500	hr	ASTM D1693 Test Method
Environmental Stress-Cracking Resistance (50°C, F10) Hardness Durometer Hardness	500 Nominal Value	hr	ASTM D1693 Test Method ASTM D2240
Environmental Stress-Cracking Resistance (50°C, F10) Hardness Durometer Hardness Shaw A	500 Nominal Value	hr	ASTM D1693 Test Method ASTM D2240 ASTM D2240
Environmental Stress-Cracking Resistance (50°C, F10) Hardness Durometer Hardness Shaw A Shaw D	500 Nominal Value 92 38	hr Unit	ASTM D1693 Test Method ASTM D2240 ASTM D2240 ASTM D2240
Environmental Stress-Cracking Resistance (50°C, F10) Hardness Durometer Hardness Shaw A Shaw D Mechanical	500 Nominal Value 92 38 Nominal Value	hr Unit Unit	ASTM D1693 Test Method ASTM D2240 ASTM D2240 ASTM D2240 Test Method
Environmental Stress-Cracking Resistance (50°C, F10) Hardness Durometer Hardness Shaw A Shaw D Mechanical Tensile Strength (Break)	500 Nominal Value 92 38 Nominal Value 25.5	hr Unit Unit MPa	ASTM D1693 Test Method ASTM D2240 ASTM D2240 ASTM D2240 Test Method ASTM D638
Environmental Stress-Cracking Resistance (50°C, F10) Hardness Durometer Hardness Shaw A Shaw D Mechanical Tensile Strength (Break) Tensile Elongation (Break)	500 Nominal Value 92 38 Nominal Value 25.5 750	hr Unit Unit MPa %	ASTM D1693 Test Method ASTM D2240 ASTM D2240 ASTM D2240 Test Method ASTM D638 ASTM D638
Environmental Stress-Cracking Resistance (50°C, F10) Hardness Durometer Hardness Shaw A Shaw D Mechanical Tensile Strength (Break) Tensile Elongation (Break) Apparent Bending Modulus	500 Nominal Value 92 38 Nominal Value 25.5 750 49.0	hr Unit Unit MPa % MPa	ASTM D1693 Test Method ASTM D2240 ASTM D2240 ASTM D2240 Test Method ASTM D638 ASTM D638 ASTM D747

Melting Temperature 93.0 °C

Additional Information

Kneader Temperature: 95 to 105 °CFoaming Temperature: 155 °CFoaming Pressure: 150 kg/cm³Curing Time: 40 minVA Content, SAMSUNG TOTAL: 18 kg force/cm²

NOTE

1. 压力1 (10N)

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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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