

Samsung Total PE E180F

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

Technical Data

Product Description

SAMSUNG TOTAL TOTAL 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

Material Status	• Commercial: Active
Literature ¹	• Processing - EVA Foam (English)
Search for UL Yellow Card	• SAMSUNG TOTAL PETROCHEMICALS Co., Ltd.
Availability	• Asia Pacific • North America
Features	• Copolymer • Dispersible • Good Tear Strength • Crosslinkable • Good Processability • Low Compression Set
Uses	• Compounding • Foam • Electronic Insulation • Footwear
Forms	• Pellets
Processing Method	• Compounding • Compression Molding

Physical	Nominal Value Unit	Test Method
Density	0.940 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance 50°C, F10	500 hr	ASTM D1693

Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Break)	25.5 MPa	ASTM D638
Tensile Elongation (Break)	750 %	ASTM D638
Apparent Bending Modulus	49.0 MPa	ASTM D747

Hardness	Nominal Value Unit	Test Method
Durometer Hardness		ASTM D2240
Shore A	92	
Shore D	38	

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	-70.0 °C	ASTM D746
Vicat Softening Temperature	64.0 °C	ASTM D1525 ³
Melting Temperature	93.0 °C	

Additional Information

Kneader Temperature: 95 to 105 °C
 Foaming Temperature: 155 °C
 Foaming Pressure: 150 kg/cm³
 Curing Time: 40 min
 VA Content, SAMSUNG TOTAL: 18 kg force/cm²

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ Loading 1 (10 N)

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Where to Buy

Supplier

SAMSUNG TOTAL PETROCHEMICALS Co., Ltd.

Seosan Si, Chung Nam Korea

Telephone: 82-41-660-6114

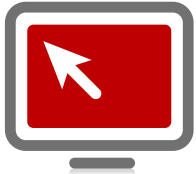
Web: <http://www.samsungtotal.com/>

Distributor

Please contact the supplier to find a distributor for Samsung Total PE E180F



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– Kevin Chase, Owner & President, Chase Plastics



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