

SABIC® FORTIFY™ C5070D

Thermoplastic Polyolefin Elastomer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® FORTIFY™ C5070D is an ethylene octene copolymer produced by solution polymerization using metallocene catalyst. This product is available as free flowing pellets.

SABIC® FORTIFY™ C5070D is designed as a low density and high performance copolymer modifier to provide superior impact properties and flow characteristics.

Typical applications are impact modifier in thermoplastic olefin compounds, footwear midsoles and wire and cable extrusion.

Please take notice of specific storage and handling conditions.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Low density		
	Copolymer		
	Impact resistance, good		
	Good liquidity		
	Octene comonomer		
Uses	Wire and cable applications		
	Composite		
	Plastic modification		
	Footwear		
Forms	Particle		
Processing Method	Wire & Cable Extrusion		
	Compound extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.868	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	8	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 1 sec	63		ASTM D2240
Shaw D, 1 sec	16		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant	2.30	MPa	ASTM D638
Tensile Strength (Break)	6.00	MPa	ASTM D638
Tensile Elongation (Break)	1100	%	ASTM D638
Flexural Modulus - 1% Secant	10.8	MPa	ASTM D790

Elastomers	Nominal Value	Unit	Test Method
Tear Strength ¹	35.3	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-52.0	°C	Internal method
Melting Temperature	62.0	°C	Internal method
Additional Information			
All physical properties were measured on compression molded specimens.			
NOTE			

1. C mould

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