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FORTIFY™ ELASTOMER C5070

POLYOLEFIN ELASTOMER

DESCRIPTION

FORTIFY™ Polyolefin Elastomer (POE) C5070 is an ethylene octene copolymer produced by solution polymerization using metallocene catalyst. This product is available as free flowing pellets.
FORTIFY™ Polyolefin Elastomer (POE) C5070 is designed as a low density and high performance copolymer modifier to provide superior impact properties and flow characteristics.

TYPICAL APPLICATIONS

Impact modifier in thermoplastic olefin compounds, footwear midsoles and wire and cable extrusion.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	868	kg/m³	ASTM D792
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	5.0	g/10 min	ASTM D1238
at 230°C and 2.16 kg	11.0	g/10 min	ASTM D1238
Mooney viscosity			
ML 1+4, 121 °C	8	MU	ASTM D1646
MECHANICAL PROPERTIES (1)			
Tensile Properties			
strength at break	6	MPa	ASTM D638
elongation	1100	%	ASTM D638
100% modulus	2.3	MPa	ASTM D638
Durometer Hardness			
shore A (1 second)	63	-	ASTM D2240
shore D (1 second)	16	-	ASTM D2240
Flexural Modulus (1% Secant)	10.8	MPa	ASTM D790 A
Tear Strength (Type C) (1)	35.3	kN/m	ASTM D624
THERMAL PROPERTIES			
Peak Melting Temperature	62	°C	SABIC method
Glass Transition Temperature, Tg	-52	°C	SABIC method

(1) All physical properties were measured from specimens cut from compression molded. These typical values depend on manufacturing conditions. Therefore, customers should confirm the product performance by using their own tests.