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FORTIFY™ ELASTOMER C1070

POLYOLEFIN ELASTOMER

DESCRIPTION

FORTIFY™ Polyolefin Elastomer (POE) C1070 is an ethylene octene copolymer produced by solution polymerization using metallocene catalyst. This product is available as free flowing pellets.
FORTIFY™ Polyolefin Elastomer (POE) C1070 is designed as a low density and high performance copolymer modifier to provide superior impact properties and flow characteristics.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL APPLICATIONS

Impact modification in thermoplastic olefin compounds, injection molded industrial and consumer durable goods, wire and cable and footwear.

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	1.0	g/10 min	ASTM D1238
at 230°C and 2.16 kg	2.0	g/10 min	ASTM D1238
Mooney viscosity			
ML 1+4, 121 °C	22	MU	ASTM D1646
MECHANICAL PROPERTIES (1)			
Tensile Properties			
stress at break	9.3	MPa	ASTM D638
elongation	850	%	ASTM D638
100% modulus	2.9	MPa	ASTM D638
Durometer Hardness			
shore A (1 second)	71	-	ASTM D1238
shore D (1 second)	21	-	ASTM D1238
Flexural Modulus (1% Secant)	13.2	MPa	ASTM D790 A
Tear Strength (Type C)	39.2	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.