

FORTIFY™ ELASTOMER B0563T

POLYOLEFIN ELASTOMER

DESCRIPTION

FORTIFY™ Polyolefin Elastomer (POE) B0563T is an ethylene butene copolymer. This product is available as free flowing pellets. FORTIFY™ Polyolefin Elastomer (POE) B0563T 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

Revision 20220201

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Density	863	kg/m ³	ASTM D1505
Melt Flow Rate (MFR)			
at 190°C and 2.16kg	0.5	g/10 min	ASTM D1238
MECHANICAL PROPERTIES			
Durometer Hardness ⁽²⁾			
shore A (1 second)	60	-	ASTM D2240
Tensile Properties			
Stress at break	2.87	MPa	ASTM D412
Elongation	510	%	ASTM D412
100% modulus	2.06	MPa	ASTM D412
Flexural Modulus (1% Secant)	7.98	MPa	ASTM D790 A
THERMAL PROPERTIES			
Peak Melting Temperature	37	°C	SABIC method
Glass Transition Temperature, T _g	-58	°C	SABIC method

(1) Typical values; not to be construed as specification limits.

(2) 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.

STORAGE AND HANDLING

POE Polyolefin Elastomer resins (in pelletized form) should be stored in such a way that it prevents exposure to direct sunlight and/or heat, as this may lead to quality deterioration. The storage location should also be dry, dust free and the ambient temperature should not exceed 30 °C. Further avoid temperatures above 50 °C and below 10 °C. Please mind the temperature conditions when using the low density grades <0.875 g/cm³, especially when the shipment or storage temperature would approach the softening and melting temperature of the POE resin. Outer package wrap should not be removed from the pallets until the products are ready to be used. Stacking of pallets is not recommended due to dimensional instability and material blocking risk. Grades with D suffix are being treated with anti-caking dust agent to reduce blocking behaviour. It is advisable to process Polyolefin Elastomers resins within 6 months after delivery, this because also excessive aging can lead to a deterioration in quality.



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