

Revision 20171215

# SABIC® FORTIFY™ C5070D

### POLYOLEFIN ELASTOMER

#### DESCRIPTION

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**

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

# TYPICAL PROPERTY VALUES

PROPERTIES **TYPICAL VALUES** UNITS **TEST METHODS** POLYMER PROPERTIES 868 kg/m<sup>3</sup> ASTM D792 Density **Melt Flow Rate** at 190°C and 2.16 kg 5.0 g/10 min ASTM D1238 ASTM D1238 at 230°C and 2.16 kg 11.0 g/10 min Mooney viscosity (ML 1+4, 121 °C) 8 MU **ASTM D1646 MECHANICAL PROPERTIES**<sup>(1)</sup> **Durometer Hardness** 63 ASTM D2240 shore A (1 second) shore D (1 second) 16 ASTM D2240 **Tensile Properties** strength at break 6 MPa ASTM D638 elongation 1100 % ASTM D638 ASTM D638 100% modulus 2.3 MPa Flexural Modulus (1% Secant) MPa ASTM D790 A 10.8 Tear Strength (Type C) 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 onmanufacturing conditions. Therefore, customers should confirm the product performance by using their own tests.

# CHEMISTRY THAT MATTERS



## HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

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

## 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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