

SABIC® FORTIFY C1055D

POLYOLEFIN ELASTOMER

DESCRIPTION

SABIC® FORTIFY™ C1055D is an ethylene octene copolymer. This product is available as free flowing pellets. SABIC® FORTIFY™ C1055D 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 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	857	kg/m ³	ASTM D792
Melt Flow Rate			
at 190°C and 2.16 kg	1.0	g/10 min	ASTM D1238
at 230°C and 2.16 kg	2.2	g/10 min	ASTM D1238
Mooney viscosity (ML 1+4, 121 °C)	24	MU	ASTM D1646
MECHANICAL PROPERTIES			
Durometer Hardness			
shore A (1 second)	55	-	ASTM D2240
shore D (1 second)	12	-	ASTM D2240
Flexural Modulus (1% Secant)	4.4	MPa	ASTM D790 A
Tear Strength (Type C)	27.5	kN/m	ASTM D624
FILM PROPERTIES			
Tensile Properties ⁽¹⁾			
strength at break	3.1	MPa	ASTM D638
elongation	>1000	%	ASTM D638
100% modulus	1.4	MPa	ASTM D638
THERMAL PROPERTIES			
Peak Melting Temperature	37	°C	SABIC method
Glass Transition Temperature, Tg	-59	°C	SABIC method

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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.

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, available on the Internet (www.SABIC.com). Additional specific information can be requested via your local Sales Office.

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 <math><0.875 \text{ g/cm}^3</math>, 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.

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC as referred to herein means any legal entity belonging to the group of companies headed by Saudi Arabia Basic Industries Corporation.