

# SABIC® FORTIFY™ C1085

Polyolefin Elastomer

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## PRODUCT DESCRIPTION:

FORTIFY™ C1085 is an ethylene octene copolymer produced by solution polymerization using metallocene catalyst. This product is available as free flowing pellets.

## CHARACTERISTICS:

FORTIFY™ C1085 is designed as a low density and high performance copolymer modifier to provide superior impact properties and flow characteristics.

## TYPICAL APPLICATIONS:

- Impact modification
- Thermoplastic olefins
- Injection molded industrial and consumer durable goods
- Wire and cable
- Footwear

## TYPICAL DATA:

PROPERTIES	Unit	Value <sup>(1)</sup>	Test Method
<b>Physical</b>			
Density	g/cm <sup>3</sup>	0.885	ASTM-D 1505
Melt Index (190°C/2.16 kg)	g/10 min.	1.0	ASTM-D 1238
Mooney viscosity (ML 1+4, 121° C)	MU	21	ASTM-D 1646
<b>Hardness <sup>(2)</sup></b>			
Durometer Hardness, Shore A (1 second)		81	ASTM-D 2240
Durometer Hardness, Shore D (1 second)		29	ASTM-D 2240
<b>Mechanical <sup>(2)</sup></b>			
Tensile Strength at break	MPa	16.7	ASTM-D 638
Elongation	%	700	ASTM-D 638
100% Modulus	MPa	4.6	ASTM-D 638
Flexural Modulus- 1% Secant	MPa	29.4	ASTM-D 790
Tear Strength, type C	kN/m	58.8	ASTM-D 624
<b>Thermal Properties</b>			
Peak melting temperature	°C	74	

(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:

The storage area should be at ambient temperature (recommended not to exceed 30 °C) in dry conditions; flow ability of the pellets can be negatively influenced by pressure or high temperature; exposure to light has to be avoided. SABIC will not extend its warranty when storage conditions are inadequate which may lead to quality deterioration such as color change that could result in inadequate product performance.

## CONTACT US:

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