

# SABIC™ POE C0570 D

Polyolefin Elastomer

## PRODUCT DESCRIPTION:

SABIC™ POE C0570 D is an ethylene octene copolymer. This product is available as free flowing pellets.

## CHARACTERISTICS:

SABIC™ POE C0570 D 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
- Footwear
- Wire and cable

## TYPICAL DATA:

| PROPERTIES                             | Unit              | Value <sup>(1)</sup> | Test Method |
|--|-------------------|----------------------|-------------|
| <b>Physical</b>                        |                   |                      |             |
| Density                                | g/cm <sup>3</sup> | 0.868                | ASTM-D 1505 |
| Melt Index (190°C/2.16 kg)             | g/10 min.         | 0.6                  | ASTM-D 1238 |
| Mooney viscosity (ML 1+4, 121° C)      | MU                | 33                   | ASTM-D 1646 |
| <b>Hardness <sup>(2)</sup></b>         |                   |                      |             |
| Durometer Hardness, Shore A (1 second) |                   | 73                   | ASTM-D 2240 |
| Durometer Hardness, Shore D (1 second) |                   | 23                   | ASTM-D 2240 |
| <b>Mechanical <sup>(2)</sup></b>       |                   |                      |             |
| Tensile Strength at break              | MPa               | 9.8                  | ASTM-D 638  |
| Elongation                             | %                 | 820                  | ASTM-D 638  |
| 100% Modulus                           | MPa               | 3.1                  | ASTM-D 638  |
| Flexural Modulus- 1% Secant            | MPa               | 15.2                 | ASTM-D 790  |
| Tear Strength, type C                  | kN/m              | 44.1                 | ASTM-D 624  |
| <b>Thermal Properties</b>              |                   |                      |             |
| Peak melting temperature               | °C                | 58                   |             |

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(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.

## PACKING & STORAGE:

The product is available in 1.25 tons pallets containing 50 bags of approximately 25 kg each. 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. 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. The product has shelf life time of 24 months from the date of production.

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