



FORTIFY™ ELASTOMER C5075DP

POLYOLEFIN ELASTOMER

DESCRIPTION

FORTIFY™ Polyolefin Elastomer (POE) C5075DP is an ethylene octene copolymer produced by solution polymerization using metallocene catalyst. This product is available as free flowing pellets. This grade is designed as a low density and high performance copolymer, it provides excellent electrical properties, high transmittance and weathering resistance.

TYPICAL APPLICATIONS

- Photovoltaic encapsulation
- Impact modification
- Thermoplastic olefins

TYPICAL PROPERTY VALUES

Revision 20241108

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Density	0.873	kg/m ³	ASTM D792
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	5	g/10 min	ASTM D1238
Mooney viscosity			
ML 1+4, 121 °C	8	MU	ASTM D1646
MECHANICAL PROPERTIES ⁽²⁾			
Tensile Properties			
strength at break	8.0	MPa	ASTM D638
elongation	>800	%	ASTM D638
100% modulus	3.0	MPa	ASTM D638
Hardness			
Durometer Hardness, Shore A (1 second)	75	-	ASTM D2240
Durometer Hardness, Shore D (1 second)	22	-	ASTM D2240
Tear Strength (Type C)	35	kN/m	ASTM D624
THERMAL PROPERTIES			
Peak Melting Temperature	69	°C	SABIC method
Glass Transition Temperature, T _g	-54	°C	SABIC method
ELECTRICAL PROPERTIES			
Volume resistivity	>1E+16	Ω.cm	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

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.



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