FORTIFY™ ELASTOMER C13075DP

POLYOLEFIN ELASTOMER

DESCRIPTION

FORTIFY™ Polyolefin Elastomer (POE) C13075DP 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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES [1]			
Density	873	kg/m³	ASTM D792
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	13	g/10 min	ASTM D1238
at 230°C and 2.16 kg	27	g/10 min	ASTM D1238
Mooney viscosity			
ML 1+4, 121 °C	3	MU	ASTM D1646
MECHANICAL PROPERTIES [2]			
Durometer Hardness			
Shore A (1 second)	74	-	ASTM D2240
Shore D (1 second)	21	-	ASTM D2240
Tensile Properties			
strength at break	7.0	MPa	ASTM D638
elongation	>800	%	ASTM D638
100% modulus	2.5	MPa	ASTM D638
Flexural Modulus (1% Secant)	7.5	MPa	ASTM D790 A
Tear Strength (Type C)	30	kN/m	ASTM D624
THERMAL PROPERTIES			
Peak Melting Temperature	68	°C	SABIC method
Glass Transition Temperature, Tg	-54	°C	SABIC method
ELECTRICAL PROPERTIES			
Volume resistivity	>10E+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.