



AFFINITY™ EG 8100G Polyolefin Plastomer

Overview

- General purpose plastomer
- Excellent impact properties in blends with polypropylene and polyethylene
- Highly flexible with good elastic recovery
- High clarity
- Breathable (high O₂ and CO₂ transmission rates)
- Low temperature sealability
- Complies with U.S. FDA FCN 424 (See NOTES 1)
- Consult the regulations for complete details. (See NOTES 2)

AFFINITY* EG 8100G Polyolefin Plastomer (POP) is produced via INSITE* Technology. It is a general purpose ethylene-octene copolymer exhibiting high flexibility and elasticity. AFFINITY EG 8100G can be utilized in monolayer and coextruded films and in blends with other polyolefins to enhance clarity, sealability and toughness of the structure.

NOTES:

(1) When used unmodified for food contact applications, this resin will comply with the Federal Food, Drug, and Cosmetic Act as a food contact substance (FCN) as a result of a premarket notification with an effective date of October 7, 2004 under FCN 424. This notification allows for use of this product as articles or components of articles used in contact with all food types under Conditions of Use A through H, as described in U.S. FDA Table 2 of 21 CFR § 176.170(c).

(2) It is the responsibility of the manufacturer of the food contact article to ensure the article is suitable for its intended use. Manufacturers should be aware that foods with a high oil content may compromise the integrity of the packaging.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.870 g/cm ³	0.870 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 250°F (121°C))	24 MU	24 MU	ASTM D1646
Melt Flow Ratio (I10/I2)	7.60	7.60	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus - 100% Secant (Compression Molded)	887 psi	6.12 MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, Compression Molded	248 psi	1.71 MPa	
Break, Compression Molded	1540 psi	10.6 MPa	
Tensile Elongation			ASTM D638
Break, Compression Molded	1100 %	1100 %	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, Compression Molded	74	74	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	109 °F	42.8 °C	ASTM D1525
Melting Temperature (DSC)	131 °F	55.0 °C	Dow Method

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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