



AFFINITY™ PF 1766

Polyolefin Plastomer

Overview AFFINITY* PF 1766 Polyolefin Plastomer is an ethylene based plastomer, offers excellent processing and performance in extrusion applications targeting for CPP film.

Main Characteristics:

- Pellet form
- Excellent processability

Applications:

- Extrusion applications

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.862 g/cm ³	0.862 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	1.2 g/10 min	1.2 g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 250°F (121°C))	19 MU	19 MU	ASTM D1646
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus - 100% Secant ¹ (Compression Molded)	203 psi	1.40 MPa	ASTM D638
Tensile Strength ¹ (Break, Compression Molded)	290 psi	2.00 MPa	ASTM D638
Tensile Elongation ¹ Break, Compression Molded	600 %	600 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	595 psi	4.10 MPa	
2% Secant : Compression Molded	580 psi	4.00 MPa	
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tear Strength ²	123 lbf/in	21.6 kN/m	ASTM D624
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Compression Molded	52	52	
Shore D, 1 sec, Compression Molded	12	12	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Transition Temperature	-72.4 °F	-58.0 °C	Dow Method
Melting Temperature (DSC) ³	93.2 °F	34.0 °C	Dow Method
Peak Crystallization Temperature (DSC)	55.4 °F	13.0 °C	Dow Method

Additional Information

Properties measured on product without talc dusting.

Notes

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

¹ 20 in/min (510 mm/min)

² Die C

³ 10°C/min

