



# AFFINITY™ PF 1788

## Polyolefin Plastomer

**Overview** AFFINITY™ PF 1788 Polyolefin Plastomer (POP) is an ethylene-based plastomer, offers excellent processing in extrusion applications with enhanced elasticity performance targeting for TPE glove application.

**Main Characteristics**

- Pellet form
- Excellent processability
- Excellent elasticity

**Applications:**

- TPE glove

Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.862 g/cm <sup>3</sup>	0.862 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	3.6 g/10 min	3.6 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	2.0 mil	50 µm	
Film Puncture Force	4.27 lbf	19.0 N	
Secant Modulus			ASTM D882
2% Secant, MD	3450 psi	23.8 MPa	
2% Secant, TD	3420 psi	23.6 MPa	
Tensile Strength			ASTM D882
MD : Yield	236 psi	1.63 MPa	
TD : Yield	174 psi	1.20 MPa	
MD : Break	1140 psi	7.86 MPa	
TD : Break	625 psi	4.31 MPa	
Tensile Elongation			ASTM D882
MD : Break	1100 %	1100 %	
TD : Break	1400 %	1400 %	
Dart Drop Impact <sup>1</sup>	120 g	120 g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	11 g	11 g	
TD	25 g	25 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature (DSC) <sup>2</sup>	104 °F	40.0 °C	Dow Method

**Extrusion Notes**

Fabrication Conditions For Cast Film:

- Screw Size: 0.98-1.18 in. (25-30 mm); 25:1 L/D
- Screw Type: Collin, Single flight screw with Maddock Mixer
- Die Gap: 60µm
- Chill Roll Temperature: 13°C
- Melt Temperature: 170°C
- Output: 4 kg/hr
- Line Speed: 5.76 mpm

