



TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 5946WZ

Technical Data Sheet
Polypropylene – Impact Copolymer
Produced in the United States

Description

Polypropylene 5946WZ is a nucleated impact copolymer with a Melt Flow of 75 g/10min.

5946WZ is characterized by very low warpage, improved stiffness, and high impact resistance balance, excellent antistatic properties and has been formulated to allow faster cycling through early demolding.

5946WZ complies with all applicable FDA regulations for food contact applications.

5946WZ has been developed specifically for the injection molding of thin-walled articles and compounding.

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	75
Mechanical Properties			
Tensile Strength at Yield	D-638	psi (MPa)	3,700 (26)
Elongation at Yield	D-638	%	6
Flexural Modulus	D-790	psi (MPa)	180,000 (1,240)
Izod Impact Notched @ 23°C	D-256	ft.-lbs/in. (J/m)	1.4 (75)
Thermal Properties⁽¹⁾			
Melting Range	TOTAL Method	°F (°C)	320-329 (160-165)
Unannealed Heat Deflection	D-648	°F (°C)	230 (110)
Other Physical Properties			
Density	D-1505	g/cm ³	0.905

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

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