


TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 4944CWZ

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

Description

Polypropylene 4944CWZ polypropylene is a nucleated and controlled rheology impact copolymer with a very High Melt Flow of 50 g/10min.

4944CWZ is characterized by improved stiffness and impact resistance, as well as low shrinkage and low warpage. It has been formulated for excellent antistatic properties and mold release characteristics.

4944CWZ has been developed for high speed injection molding of thin-walled packaging containers and household articles.

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	50
Mechanical Properties			
Tensile, Strength at Yield	ASTM D-638	psi (MPa)	3,700 (26)
Elongation at Yield	ASTM D-638	%	5
Flexural Modulus	ASTM D-790	psi (MPa)	210,000 (1,450)
Izod Impact Notched @ 23°C	ASTM D-256	ft.-lbs/in. (J/m)	1.5 (80)
Thermal Properties⁽¹⁾			
Melting Range	TOTAL Method	F° (°C)	320-329 (160-165)
Heat Deflection	ASTM D-648	F° (°C)	194 (90)
Vicat Softening Point	D-1525	F° (°C)	302 (150)
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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