

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

TotalEnergies Petrochemicals & Refining USA, Inc. Polymers Americas

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

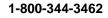
	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	50
Mechanical Properties			
Tensile, Strength at Yield	ASTM D-638	psi (MPa)	3,700 (26)
Elongation at Yield	ASTM D-638	%	5
Flexural Modulus	ASTM D-790	psi (MPa)	210,000 (1,450)
Izod Impact Notched @ 23°C	ASTM D-256	ftIbs/in. (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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TOTALENERGIES PETROCHEMICALS & REFINING USA, INC. POLYMERS AMERICAS 1201 Louisiana Street Suite 1800 Houston, TX 77002 www.polymers.totalenergies.com

TECHNICAL CENTER P.O. Box 1200 Deer Park, Texas 77536 Phone: 281-884-7500



All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TotalEnergies products must be guided by the users own methods for selection of proper formulation. TotalEnergies Patrochemicals & Refining USA Inc. disclaims any responsibility for misuse or misapplication of its products. TotalEnergies MARRANTY OF MERCHARTABUITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULRA PURPOSE. TotalEnergies Imited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.