



TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 4524WZ

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

Polypropylene

Description

Polypropylene 4524WZ is a nucleated high impact copolymer with a Melt Flow of 7 g/10min

4524WZ is characterized by significantly improved impact resistance, while maintaining excellent antistatic properties and good processability.

4524WZ has been developed specifically for the injection molding of baskets, pails, toys and any articles requiring extra toughness.

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	7
Mechanical Properties			
Tensile, Strength at Yield	D-638	psi (MPa)	3,800 (26)
Elongation at Yield	D-638	%	7
Flexural Modulus	D-790	psi (MPa)	170,000 (1,170)
Izod Impact (Notched) @ 23°C @ -20°C	ASTM D-256	ft.-lbs/in. (J/m)	3.5 (187)
	ASTM D-256	ft.-lbs/in. (J/m)	1.4 (75)
Thermal Properties⁽¹⁾			
Melting Range	TOTAL Method	°F (°C)	320-329 (160-165)
Heat Deflection Temperature	D-648	°F (°C)	194 (90)
Vicat Softening Point	D-1525	°F (°C)	298 (148)
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

1-800-344-3462

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