



TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 5824WZ

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

Description

Polypropylene 5824WZ is a nucleated impact copolymer with a melt flow of 40 g/10min that has been developed for high speed injection molding of thin-walled packaging containers and household articles.

5824WZ is characterized by excellent stiffness and impact resistance, as well as low shrinkage and low warpage. The product is formulated to provide excellent mold release and processing properties required for high speed injection molding applications.

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	40
Mechanical Properties			
Tensile, Strength at Yield	D-638	psi (MPa)	3,200 (22)
Elongation at Yield	D-638	%	6
Flexural Modulus	D-790	psi (MPa)	160,000 (1,105)
Izod Impact Notched @ 23°C	D-256	ft.-lbs/in. (J/m)	3.5 (187)
Thermal Properties⁽¹⁾			
Melting Range	TOTAL Method	°F (°C)	320-329 (160-165)
Heat Deflection	D-648	°F (°C)	203 (95)
Vicat Softening Point	D-1525	°F (°C)	298 (148)
Other Physical Properties			
Density	D-1505	g/cm ³	0.905

Polypropylene

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

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