



TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 4820WZ

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

Description

Polypropylene 4820WZ is a nucleated impact copolymer with a Melt Flow of 35 g/10min.

4820WZ is characterized by improved stiffness, creep resistance, high impact resistance, excellent antistatic properties and has been formulated to allow faster cycling through early demolding.

4820WZ has been developed specifically for the injection molding of garden furniture, housewares, thin-walled articles, and compounding.

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	35
Mechanical Properties			
Tensile, Strength at Yield	D-638	psi (MPa)	4,000 (28)
Elongation at Yield	D-638	%	6
Flexural Modulus	D-790	psi (MPa)	200,000 (1,380)
Izod Impact (Notched) @ 23°C @ -20°C	D-256	ft.-lbs/in. (J/m)	1.5 (80)
	D-256	ft.-lbs/in. (J/m)	0.7 (37)
Charpy Impact Strength @ 23°C @ -20°C	DIN 53453	kJ/m ²	9.5
	DIN 53453	kJ/m ²	4.5
Thermal Properties⁽¹⁾			
Melting Range	TOTAL Method	°F (°C)	320-329 (160-165)
Heat Deflection	D-648	°F (°C)	212 (100)
Vicat Impact Strength	D-1525	°F (°C)	302 (150)
Other Physical Properties			
Density	ASTM D-1505	g/cm ³	0.905

- (1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
(2) MP determined with a DSC-2 Differential Scanning Calorimeter. Test procedure available upon request.

Rev: Sept 2021

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