

TotalEnergies Polypropylene 4820WZ

Polypropylene Impact Copolymer

TotalEnergies

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Technical Data

Product 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.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• TotalEnergies		
Availability	• North America		
Additive	• Nucleating Agent		
Features	• Antistatic • Creep Resistant • Fast Molding Cycle	• Good Stiffness • High Impact Resistance • Impact Copolymer	• Nucleated
Uses	• Compounding • Furniture	• Household Goods • Lawn and Garden Equipment	• Thin-walled Parts
Forms	• Pellets		
Processing Method	• Compounding	• Injection Molding	

Physical	Nominal Value Unit	Test Method
Density	0.905 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35 g/10 min	ASTM D1238

Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield)	27.6 MPa	ASTM D638
Tensile Elongation (Yield)	6.0 %	ASTM D638
Flexural Modulus	1380 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Charpy Unnotched Impact Strength		DIN 53453
-20°C	4.5 kJ/m ²	
23°C	9.5 kJ/m ²	
Notched Izod Impact		ASTM D256
-20°C	37 J/m	
23°C	80 J/m	

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature	150 °C	ASTM D1525
Melting Temperature	160 to 165 °C	Internal Method
Heat Deflection Temperature	100 °C	ASTM D648

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.



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Where to Buy

Supplier

TotalEnergies

Houston, Houston USA

Telephone: 800-344-3462 (US); +33-1-47-44-45-46 (EU)

Web: <https://polymers.totalenergies.com/>

Distributor

Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

CCC Plastics

Telephone: 800-461-1638

Web: <https://www.ccc-group.com/>

Availability: Canada

M. Holland Canada Company

Telephone: 905-665-1168

Web: <http://www.mholland.com/>

Availability: Canada

M. Holland Company

Telephone: 855-497-1403

Web: <http://www.mholland.com/>

Availability: Mexico, United States

