

## 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
<b>Rheological Properties</b>			
Melt Flow	D-1238	g/10 min	35
<b>Mechanical Properties</b>			
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	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	DIN 53453	kJ/m <sup>2</sup>	9.5
	DIN 53453	kJ/m <sup>2</sup>	4.5
<b>Thermal Properties<sup>(1)</sup></b>			
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)
<b>Other Physical Properties</b>			
Density	ASTM D-1505	g/cm <sup>3</sup>	0.905

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

4820WZ 01/2020



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