


TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 4720WZ

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

Description

Polypropylene 4720WZ is a nucleated impact copolymer with a Melt Flow of 25 g/10min.

4720WZ is characterized by improved stiffness, creep resistance, high impact resistance, excellent antistatic properties and has been formulated to allow faster cycling through early demolding.

4720WZ has been developed specifically for the injection molding of garden furniture, housewares and thin-walled articles.

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	ASTM D-1238	g/10 min	25
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)	210,000 (1,450)
Izod Impact Notched @ 23°C	D-256	ft.-lbs/in. (J/m)	2.0 (107)
@ -20°C	D-256	ft.-lbs/in. (J/m)	0.9 (48)
Charpy Impact Strength @ 23°C	DIN 53453	kJ/m ²	9.5
@ -20°C	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)	194 (90)
Vicat Softening Point	D-1525	°F (°C)	302 (150)
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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