TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 4740WZ

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

Description

Polypropylene 4740WZ polypropylene is a nucleated impact copolymer with a Melt Flow of 25 g/10min.

Easy Flow: 4740WZ is characterized by improved stiffness, creep resistance, high impact resistance, excellent antistatic properties and has been formulated to allow faster cycling through early demolding.

Applications: 4740WZ 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	D-1238	g/10 min	25
Mechanical Properties			
Tensile Strength at Yield	D-638	psi (MPa)	4,000 (28)
Elongation	D-638	%	6
Flexural Modulus	D-790	psi (MPa)	225,000 (1,550)
Izod Impact Notched			
@ 23°C	D-256	ft-lb/in (J/m)	1.8 (96)
@ -20°C	D-256	ft-lb/in (J/m)	0.8 (43)
Thermal Properties(1)			
Heat Deflection Temperature	D-648	°F (°C)	230 (110)
Vicat Softening Point	D-1525	°F (°C)	302 (150)
Other Physical Properties			
Density	D-1505	g/cm^3	0.905
Melting Range	DSC(2)	°F (°C)	320-329 (160-165)

(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.

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Polypropylene

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