TOTAL Polypropylene 4720WZ

TOTAL - Polypropylene Impact Copolymer

Thursday, April 2, 2020

General Information

Product 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.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Nucleating Agent		
Features	• Antistatic • Creep Resistant • Fast Molding Cycle	• Good Stiffness • High Impact Resistance • Impact Copolymer	• Nucleated
Uses	• Furniture • Household Goods	• Lawn and Garden Equipment • Thin-walled Parts	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	4000	psi	ASTM D638
Tensile Elongation (Yield)	6.0	%	ASTM D638
Flexural Modulus	210000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength			DIN 53453
-4°F	2.1	ft·lb/in²	
73°F	4.5	ft·lb/in²	
Notched Izod Impact			ASTM D256
-4°F	0.90	ft·lb/in	
73°F	2.0	ft·lb/in	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	302	°F	ASTM D1525
Melting Temperature	320 to 329	°F	Internal Method
Heat Deflection Temperature	194	°F	ASTM D648

Notes

[1] Typical properties: these are not to be construed as specifications.