

TOTAL Polypropylene PPC 4820WZ

Polypropylene Impact Copolymer

TOTAL Refining & Chemicals

Message:

TOTAL Petrochemicals 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 Information			
Additive	Nucleating agent		
Features	Nucleated		
	Rigid, good		
	Antistatic property		
	Impact resistance, high		
	Fast molding cycle		
	Good creep resistance		
Uses	Thin wall parts		
	Composite		
	Furniture		
	Household goods		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Composite		
	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	1450	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	37	J/m	ASTM D256
23°C	80	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	150	°C	ASTM D1525
Melting Temperature	163	°C	
Additional Information			

Charpy Impact Strength, DIN 53453, -20°C: 4.5 kJ/m²Charpy Impact Strength, DIN 53453, 23°C: 9.5 kJ/m²Heat Deflection, ASTM D648: 100°CMelting Point, Total PP Method: 160 to 165°C

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