

Maxxam™ PP5120R B2

Polypropylene Homopolymer

PolyOne Corporation

Message:

PolyOne's Maxxam™ family of polypropylene- and polyethylene-based products covers a wide range of applications, markets and performance requirements. Standard grades are compounded with calcium carbonate, glass and talc to provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance. Custom grades are available with features such as UV stabilizers, heat stabilizers, custom color, high impact, etc.

General Information			
Filler / Reinforcement	Talc		
Features	General Purpose		
	Heat Stabilized		
	Homopolymer		
Uses	Automotive Applications		
	Construction Applications		
	Consumer Applications		
	General Purpose		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12 to 22	g/10 min	ISO 1133
Molding Shrinkage (3.20 mm)	1.0	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹ (Yield)	27.0	MPa	ISO 527
Tensile Strain (Break)	16	%	ISO 527-2
Flexural Modulus ²	2200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180
-40°C	1.2	kJ/m ²	
23°C	2.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	110	°C	ISO 75-2/B
1.8 MPa, Unannealed	63.0	°C	ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method


Burning Rate	< 100	mm/min	ISO 3795
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	1.0	hr	
Rear Temperature	185 to 200	°C	
Middle Temperature	200 to 215	°C	
Front Temperature	205 to 220	°C	
Nozzle Temperature	205 to 220	°C	
Mold Temperature	40.0	°C	
Injection Rate	Moderate		
Back Pressure	8.00	MPa	
NOTE			
1.	50 mm/min		
2.	2.0 mm/min		

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