Maxxam™ PP5120F 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 filler		
Features	Homopolymer Thermal Stability General		
Uses	Industrial application Architectural application field Application in Automobile Field General Consumer goods application field		
Forms	Particle		
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 - 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			ISO 180
-40°C	1.2	kJ/m^2	ISO 180
23°C	2.0	kJ/m^2	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	110	°C	ISO 75-2/B
1.8 MPa, not annealed	63.0	°C	ISO 75-2/A
Flammability	**Nominal Value**	**Unit**	**Test Method**

Burning Rate	< 100	mm/min	ISO 3795
Flame Rating (1.5 mm)	HB		UL 94

Injection	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	1.0	hr
Rear Temperature	185 - 200	°C
Middle Temperature	200 - 215	°C
Front Temperature	205 - 220	°C
Nozzle Temperature	205 - 220	°C
Mold Temperature	40	°C
Injection Rate	Moderate	
Back Pressure	8.00	MPa

NOTE	
1.	50 mm/min
2.	2.0 mm/min

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