

# Maxxam™ MX5210-0040 RS Natural

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	Filler,40% Filler by Weight Glass Fiber		
Features	Chemically Coupled General Purpose Homopolymer Low Flow		
Uses	Consumer Applications General Purpose Hospital Goods Industrial Applications Medical Devices		
Agency Ratings	FDA Unspecified Rating 2		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm <sup>3</sup>	ASTM D792
Specific Volume	0.820	cm <sup>3</sup> /g	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>1</sup> (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	88.9	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	3.0	%	ASTM D638
Flexural Modulus	7100	MPa	ASTM D790
Flexural Strength	143	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	120	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.18 mm)	162	°C	ASTM D648
Injection	Nominal Value	Unit	
Mold Temperature	16.0 to 50.0	°C	
NOTE			
1.	Procedure A		
2.	Type I, 51 mm/min		
3.	Type I, 51 mm/min		

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#### Recommended distributors for this material

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