



Maxxam™ MX5200-5005 RS BLACK

Polypropylene Homopolymer

Key Characteristics

Product Description

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

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Talc\Mineral		
Features	• General Purpose	• Homopolymer	
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.25	1.25	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13 g/10 min	13 g/10 min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress ² (Yield)	3930 psi	27.1 MPa	ISO 527
Flexural Modulus ³	543000 psi	3740 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength			ISO 180
-40°F (-40°C)	0.88 ft-lb/in ²	1.9 kJ/m ²	
73°F (23°C)	0.99 ft-lb/in ²	2.1 kJ/m ²	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	297 °F	147 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	180 °F	82.0 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Burning Rate	0.40 in/min	10 mm/min	ISO 3795

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	1.0 hr	1.0 hr
Rear Temperature	365 to 392 °F	185 to 200 °C
Middle Temperature	392 to 419 °F	200 to 215 °C
Front Temperature	401 to 428 °F	205 to 220 °C
Nozzle Temperature	401 to 428 °F	205 to 220 °C
Mold Temperature	104 °F	40 °C

Injection	Typical Value (English)	Typical Value (SI)
Injection Rate	Moderate	Moderate
Back Pressure	1160 psi	8.00 MPa

Notes

¹ Typical values are not to be construed as specifications.

² 2.0 in/min (50 mm/min)

³ 0.079 in/min (2.0 mm/min)



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