



Maxxam™ F5134T2-4

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, 20% Filler by Weight		
Features	• General Purpose	• Homopolymer	
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.04	1.04	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.5 g/10 min	9.5 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR)	0.641 in ³ /10min	10.5 cm ³ /10min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	377000 psi	2600 MPa	ISO 527-2
Tensile Stress (Yield)	4500 psi	31.0 MPa	ISO 527-2
Tensile Strain (Yield)	5.0 %	5.0 %	ISO 527-2
Flexural Stress	6820 psi	47.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	1.5 ft·lb/in ²	3.2 kJ/m ²	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	244 °F	118 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	158 °F	70.0 °C	ISO 75-2/A
Melting Temperature	320 to 338 °F	160 to 170 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Burning Rate	< 3.9 in/min	< 100 mm/min	ISO 3795

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	365 to 428 °F	185 to 220 °C
Mold Temperature	68.0 to 140 °F	20.0 to 60.0 °C

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Notes

¹ Typical values are not to be construed as specifications.

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