

# Maxxam<sup>™</sup> FR MF5210-0301 DK GRAY 2451 Polypropylene

# **Key Characteristics**

General			
Material Status	Commercial: Active		7
Regional Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America
Features	Flame Retardant	Medium Impact Resistance	
Forms	Pellets		

## Technical Properties 1

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Physical	Typical Value (English)	Typical Value (SI)	Test Method	
Specific Gravity	1.01	1.01	ASTM D792	
Melt Mass-Flow Rate (MFR) <sup>2</sup> (230°C/2.16 kg)	4.0 to 12 g/10 min	4.0 to 12 g/10 min	ASTM D1238	
Molding Shrinkage - Flow	0.010 to 0.020 in/in	1.0 to 2.0 %	ASTM D955	
/lechanical	Typical Value (English)	Typical Value (SI)	Test Method	
Tensile Strength <sup>3</sup> (Yield)	3500 psi	24.1 MPa	ASTM D638	
Tensile Elongation <sup>3</sup> (Break)	200 %	200 %	ASTM D638	
Flexural Modulus	150000 psi	1030 MPa	ASTM D790	
Flexural Strength	4600 psi	31.7 MPa	ASTM D790	
mpact	Typical Value (English)	Typical Value (SI)	Test Method	
Notched Izod Impact			ASTM D256A	
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.3 ft·lb/in	69 J/m		
Flammability	Typical Value (English)	Typical Value (SI)	Test Method	
Flame Rating		·	UL 94	
0.06 in (1.5 mm)	V-0	V-0		
0.12 in (3.0 mm)	V-0	V-0		

## **Processing Information**

Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	100 °F	37.8 °C	
Drying Time	2.0 hr	2.0 hr	
Rear Temperature	360 to 390 °F	182 to 199 °C	
Middle Temperature	370 to 400 °F	188 to 204 °C	
Front Temperature	390 to 410 °F	199 to 210 °C	
Nozzle Temperature	400 to 425 °F	204 to 218 °C	
Mold Temperature	60.0 to 120 °F	15.6 to 48.9 °C	

#### Notes

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<sup>&</sup>lt;sup>1</sup> Typical values are not to be construed as specifications.

<sup>&</sup>lt;sup>2</sup> Procedure A

<sup>&</sup>lt;sup>3</sup> Type I, 2.0 in/min (51 mm/min)

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