



Maxxam™ FR MF5210-0301 DK GRAY 2451

Polypropylene

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant • Medium Impact Resistance		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.01	1.01	ASTM D792
Melt Mass-Flow Rate (MFR) ² (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
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ³ (Yield)	3500 psi	24.1 MPa	ASTM D638
Tensile Elongation ³ (Break)	200 %	200 %	ASTM D638
Flexural Modulus	150000 psi	1030 MPa	ASTM D790
Flexural Strength	4600 psi	31.7 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.3 ft-lb/in	69 J/m	ASTM D256A
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	38 °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 to 120 °F	16 to 49 °C

Notes

¹ Typical values are not to be construed as specifications.

² Procedure A

³ Type I, 2.0 in/min (51 mm/min)