



# Maxxam™ FR PP FR 7A11

## Polypropylene

### Key Characteristics

#### Product Description

Maxxam™ FR flame-retardant polyolefin compounds and masterbatches meet stringent flammability performance requirements defined by industry agencies, including Underwriters Laboratories UL 94 V-2, V-0, and 5VA performance ratings. In addition, many compounds in the Maxxam FR portfolio offer elevated Relative Thermal Index (RTI) ratings.

#### General

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

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	0.930	0.930	ASTM D792
Specific Volume	29.8 in <sup>3</sup> /lb	1.08 cm <sup>3</sup> /g	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>2</sup> (230°C/2.16 kg)	4.6 g/10 min	4.6 g/10 min	ASTM D1238
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>3</sup> (Yield)	4100 psi	28.3 MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	200 %	200 %	ASTM D638
Flexural Modulus	180000 psi	1240 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	1.2 ft·lb/in	64 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	194 °F	90.0 °C	ASTM D648
RTI Elec 0.06 in (1.5 mm) 0.12 in (3.0 mm)	221 °F 221 °F	105 °C 105 °C	UL 746
RTI Imp 0.06 in (1.5 mm) 0.12 in (3.0 mm)	221 °F 221 °F	105 °C 105 °C	UL 746
RTI Str 0.06 in (1.5 mm) 0.12 in (3.0 mm)	221 °F 221 °F	105 °C 105 °C	UL 746
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating 0.031 in (0.79 mm), ALL 0.06 in (1.5 mm) 0.12 in (3.0 mm)	V-2 V-2 V-2	V-2 V-2 V-2	UL 94

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**Notes**

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

<sup>2</sup> Procedure A

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

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