

Maxxam™ FR PP FR 7B01

Polypropylene

PolyOne Corporation

Message:

Maxxam™FR flame retardant polyolefin polymers and masterbatches meet the strict flammability requirements set by the industry, including UL 94V-2,V-0 and 5VA performance grades of UL Laboratory. In addition, the various polymers in the Maxxam FR combination are also suitable for high relative temperature index (RTI) levels.

General Information			
UL YellowCard	E76261-101374865	E76261-101413460	
Features	Medium liquidity		
	Flame retardancy		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm³	ASTM D792
Specific Volume	1.08	cm³/g	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (Injection Molded)	1.0 - 2.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	31.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	120	%	ASTM D638
Flexural Modulus	1380	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	43	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.18 mm)	98.0	°C	ASTM D648
RTI Elec			UL 746
0.750 mm	105	°C	UL 746
1.50 mm	110	°C	UL 746
3.00 mm	110	°C	UL 746
RTI Imp			UL 746
0.750 mm	105	°C	UL 746
1.50 mm	110	°C	UL 746
3.00 mm	110	°C	UL 746
RTI			UL 746
0.750 mm	105	°C	UL 746
1.50 mm	110	°C	UL 746

3.00 mm	110	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	52	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)			UL 746
0.750 mm	PLC 0		UL 746
1.50 mm	PLC 0		UL 746
3.00 mm	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 0		UL 746
Hot-wire Ignition (HWI)			UL 746
0.750 mm	PLC 3		UL 746
1.50 mm	PLC 2		UL 746
3.00 mm	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750mm, all	V-2		UL 94
1.50 mm	V-2		UL 94
3.00 mm	V-2		UL 94

Additional Information

Unless otherwise specified, all data listed is for natural and black colored materials. Pigments can affect properties.

NOTE

1. Procedure A
2. Type 1, 51mm/min
3. Type 1, 51mm/min

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