

Maxxam™ FR PP FR 7B31

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	E76261-101413460		
Additive	heat stabilizer		
Features	Impact resistance, high		
	Medium liquidity		
	Thermal Stability		
	Flame retardancy		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.928	g/cm ³	ASTM D792
Specific Volume	1.08	cm ³ /g	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	5.0 - 11	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	22.1	MPa	ASTM D638
Tensile Elongation ³ (Break)	250	%	ASTM D638
Flexural Modulus	1050	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	640	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.18 mm)	73.0	°C	ASTM D648
RTI Elec			UL 746
1.50 mm	105	°C	UL 746
3.00 mm	105	°C	UL 746
RTI Imp			UL 746
1.50 mm	105	°C	UL 746
3.00 mm	105	°C	UL 746
RTI			UL 746
1.50 mm	105	°C	UL 746
3.00 mm	105	°C	UL 746
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	26	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 3		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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