

Maxxam™ FR PP 301 NATL S

Polypropylene
PolyOne Corporation

Message:

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 Information			
UL YellowCard	E76261-101377776	E76261-101414168	
Features	Flame Retardant		
	Homopolymer		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.978	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	4.0 to 12	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	28.3	MPa	ASTM D638
Tensile Elongation ³ (Break)	230	%	ASTM D638
Flexural Modulus	1100	MPa	ASTM D790
Poisson's Ratio	0.43		ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	27	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.18 mm)	90.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	41	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)			UL 746
0.750 mm	PLC 1		
1.50 mm	PLC 1		
3.00 mm	PLC 1		
High Voltage Arc Resistance to Ignition (HVAR)			UL 746
0.750 mm	PLC 1		
1.50 mm	PLC 1		
3.00 mm	PLC 1		
High Voltage Arc Tracking Rate (HVTR)	PLC 0		UL 746

Hot-wire Ignition (HWI)			UL 746
0.750 mm	PLC 4		
1.50 mm	PLC 3		
3.00 mm	PLC 2		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm, (NC and Black)	V-0		
1.50 mm, (NC and Black)	V-0		
3.00 mm, (NC and Black)	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	960	°C	
1.50 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	960	°C	
1.50 mm	960	°C	
3.00 mm	775	°C	
NOTE			
1.	Procedure A		
2.	Type I, 51 mm/min		
3.	Type I, 51 mm/min		

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