

Maxxam™ FR PP 301 BLK 1284-11 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			
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 ⁴	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
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
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		
4.	Measured on Natural		

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