

Maxxam™ FR PP 301 BLK 1284-11 S

Polypropylene
Avient Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

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
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E76261-101414168
Search for UL Yellow Card	• Avient Corporation • Maxxam™ FR
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Flame Retardant • Homopolymer
Forms	• Pellets

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	0.978 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ⁴ (230°C/2.16 kg)	4.0 to 12 g/10 min	ASTM D1238
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ⁵ (Yield)	28.3 MPa	ASTM D638
Tensile Elongation ⁵ (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
Comparative Tracking Index (CTI)	PLC 0	UL 746A
High Amp Arc Ignition (HAI)		UL 746A
0.75 mm	PLC 1	
1.5 mm	PLC 1	
3.0 mm	PLC 1	
High Voltage Arc Resistance to Ignition (HVAR)		UL 746A
0.750 mm	PLC 1	
1.50 mm	PLC 1	
3.00 mm	PLC 1	
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746A
Hot-wire Ignition (HWI)		UL 746A
0.75 mm	PLC 4	
1.5 mm	PLC 3	
3.0 mm	PLC 2	



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Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.75 mm, (NC and Black)	V-0	
1.5 mm, (NC and Black)	V-0	
3.0 mm, (NC and Black)	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
0.75 mm	960 °C	
1.5 mm	960 °C	
3.0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
0.75 mm	960 °C	
1.5 mm	960 °C	
3.0 mm	775 °C	

Injection	Nominal Value Unit
Drying Temperature	38 °C
Drying Time	2.0 hr
Rear Temperature	182 to 199 °C
Middle Temperature	188 to 204 °C
Front Temperature	199 to 210 °C
Nozzle Temperature	204 to 218 °C
Mold Temperature	16 to 49 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ Procedure A

⁵ Type I, 51 mm/min



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Where to Buy

Supplier

Avient Corporation

Cleveland, Cleveland USA

Telephone: 1-844-4AVIENT

Web: <https://www.avient.com>

Distributor

Avient Distribution

Avient Distribution is a global distribution company. Contact Avient Distribution for availability of individual products by country.

Telephone: +1-888-502-0951 (USA); +86-21-6028-4805 (China)

Web: <https://now.avient.com/>

Availability: Global

