



Maxxam™ FR Compounds

Product Table

PolyOne “First Choice” Products

Maxxam™ FR standard compounds conforming to UL94 V0, V1, V2 with Glow Wire (IEC 695-2-1) and 5VA performance ratings from 750°C up to 960°C are available with many compounds in the Maxxam FR solutions portfolio. Maxxam FR compounds have outstanding dielectric properties that are practically independent of environmental conditions such as temperature or humidity.

Property	Method	Unit	MAXXAM™ FR	MAXXAM™ FR	MAXXAM™ FR	MAXXAM™ FR	MAXXAM™ FR	MAXXAM™ FR
			H10 V2 NATURAL	H10 EP-V2 NATURAL	H10 V0 NATURAL	H10 XF-V0 NATURAL	H8 T/20 EP-V0 NATURAL	H8 GF/20 V0 NATURAL
			PP Homopolymer, unfilled, UL94 V2	PP Homopolymer, unfilled, UL94 V2, medium impact	PP Homopolymer, unfilled, UL94 V0	PP Homopolymer, unfilled, UL94 V0, halogen free	PP Homopolymer, 20% mineral filled, UL94 V0, medium impact	PP Homopolymer, 20% glass fiber re- inforced, UL94 V0
Physical								
Density	ISO 1183	g/cm ³	0,95	0,95	1,17	1,06	1,34	1,37
Melt Flow Index, 230C/2, 16kg	ISO 1133	g/10'	10	10	10	10	10	8
Linear Mould Shrinkage	-	%	1,5 - 1,8	1,4 - 1,7	1,0 - 1,2	1,3 - 1,8	0,8 - 1,2	0,7 - 1,0
Mechanical								
Tensile Strength	ISO 527	MPa	32	24	25	25	25	45
Elongation at Break	ISO 527	%	35	>40	>15	>60	20	2,5
Tensile Modulus	ISO 527	MPa	1600	1400	1200	1800	2750	4500
Izod Impact Strength (Notched), 23C	ISO 180/1A	kJ/m ²	5	20	4,75	4,5	13	10
Izod Impact Strength (Notched), 0C	ISO 180/1A	kJ/m ²	4	13	3,75	3,5	10	5
Thermal								
HDT 1,8 MPa	ISO 75B	°C	50	40	55	55	55	75
Vicat Softening Temperature 49 N/50	ISO 306	°C	85	68	69	73	68	90
Electrical								
Flammability	UL 94	-	V2	V2	V0	V0	V0	V0
Glow Wire Test	IEC 695-2-1	°C	850	850	960	960	960	960
Comparative Tracking Index	IEC 112/A	V	600	600	450	600	600	600

We determined this information about this product(s) using lab-scale equipment and/or estimation. We provide “typical” data to help you select products to evaluate. “Typical” data do not reflect normal variations in our product as made. Do not rely on “typical” data for design purposes; ask us for min-max data. We do not guarantee “typical” properties. Your processes can significantly alter polymer physical properties. Test the product thoroughly for suitability in your specific application after processing on your production equipment. You assume all responsibility for product selection and suitability for your intended use. We make no other warranties, express or implied, including any implied warranties of merchantability or fitness for purpose, respecting this information or this product. Nothing herein constitutes permission, recommendation or inducement to practice any patented invention without permission from its owner

Product choices often vary by region due to differences in regulatory and agency requirements, availability and other key factors. Please contact your nearest sales office for assistance in choosing the right solution for your locale.

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