

Maxxam™ FR H6 GF/30 XF V0 BLACK T 70

Avient Corporation - Polypropylene Homopolymer

Wednesday, January 26, 2022

General Information

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-0, performance ratings.

General

Generic Name	• Polypropylene Homopolymer (PP Homopolymer)
Material Status	• Commercial: Active
Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	<ul style="list-style-type: none"> • Chemically Coupled • Flame Retardant • Good Heat Resistance • Good Impact Resistance <ul style="list-style-type: none"> • Good Processability • Good Stiffness • Good Strength • Halogen Free <ul style="list-style-type: none"> • Heat Stabilized • High Flow
Uses	<ul style="list-style-type: none"> • Automotive Applications • Consumer Applications <ul style="list-style-type: none"> • Electrical/Electronic Applications • General Purpose <ul style="list-style-type: none"> • Household Goods • Industrial Applications
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.3	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow : 23°C, 2.00 mm	0.50 to 0.70	%	
Flow : 23°C, 2.00 mm	0.20 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8200	MPa	ISO 527-1/1
Tensile Stress	65.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	7.5	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	160 to 165	°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.6 mm)	V-0		UL 94
Glow Wire Flammability Index (2.0 mm)	960	°C	IEC 60695-2-12

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	1.0 to 2.0	hr
Rear Temperature	175 to 185	°C
Middle Temperature	180 to 190	°C
Front Temperature	185 to 195	°C
Nozzle Temperature	195 to 200	°C
Mold Temperature	25 to 55	°C

Notes

¹ Typical properties: these are not to be construed as specifications.