Armamid® PA6 GF 20-5FRM

PA6-GF20 R&P Polyplastic

Product Texts

This material displays high mechanical and electrical properties; self-attenuates after the ignition source is exterminated; is resilient to nonpolar solvents, hydrocarbons (kerosene, gasoline, benzene etc.), mineral oils, strong and weak alkali, weak acids.
Available in natural, dark-olive, grey and black colors.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**15**	g/10min	ISO 1133
Temperature	**250**	°C	-
Load	**2.16**	kg	-
Molding shrinkage, parallel	**0.2**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.8**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	**140**	MPa	ISO 527
Strain at break	**4**	%	ISO 527
Charpy impact strength, +23°C	**56**	kJ/m²	ISO 179/1eU

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**216**	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**195**	°C	ISO 75-1/-2
ASTM Data			
UL 94 Flame rating	**V-0**	-	UL 94

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	**1E13**	Ohm*m	IEC 62631-3-1
Electric strength	**25**	kV/mm	IEC 60243-1
Comparative tracking index	**200**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Density	**1500**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	**260**	°C	-
Mold temperature	**80**	°C	-

Characteristics

Processing
Injection Molding

Applications
Aircraft and Aerospace, Automotive, Electrical and Electronical

Special Characteristics
Flame retardant

Regional Availability
Europe

Chemical Resistance
Acid Resistance, Alkali Resistance, Solvent Resistance, Oil Resistance

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