Armamid® PA6 GF 25-1FR

PA6-GF25 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 grey color.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**8**	g/10min	ISO 1133
Temperature	**250**	°C	-
Load	**2.16**	kg	-
Molding shrinkage, parallel	**0.2**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.6**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	**125**	MPa	ISO 527
Strain at break	**180**	%	ISO 527
Charpy impact strength, +23°C	**36**	kJ/m²	ISO 179/1eU

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**218**	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**192**	°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	**23**	kV/mm	IEC 60243-1
Comparative tracking index	**350**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Density	**1590**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	**240**	°C	-
Mold temperature	**80**	°C	-

Characteristics

Processing
Injection Molding

Special Characteristics
Flame retardant

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

Certifications
RoHS compliant

Applications
Aircraft and Aerospace, Automotive, Electrical and Electronical

Regional Availability
Europe