Armamid® PA6 GF 30-3M

PA6-GF30 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, grey, red, brown, blue and black colors.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.2**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.7**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	**150**	MPa	ISO 527
Strain at break	**3**	%	ISO 527
Charpy impact strength, +23°C	**60**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**7**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**219**	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**205**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**215**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**25**	E-6/K	ISO 11359-1/-2

Other properties	Value	Unit	Test Standard
Density	**1400**	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

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

Regional Availability
Europe