Armamid® PA6 GF 30-2TS-AF

PA6-GF30 R&P Polyplastic

Product Texts

This material displays high mechanical and electrical properties; resilient to hydrocarbons (kerosene, gasoline, benzene etc.), mineral and synthetic oils, strong and weak alkali, weak acids.

Available in natural color.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**9**	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	**170**	MPa	ISO 527
Strain at break	**4**	%	ISO 527
Charpy impact strength, +23°C	**70**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**14**	kJ/m²	ISO 179/1eA

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	**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	**30**	E-6/K	ISO 11359-1/-2

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

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

Delivery form
Natural Color

Special Characteristics
Heat stabilized or stable to heat

Features
High Coefficient of Friction

Chemical Resistance
Acid Resistance, Alkali Resistance, Oil Resistance

Applications
Aircraft and Aerospace, Automotive, Electrical and Electronical

Regional Availability
Europe