Armamid® PA6 GF 30-2HS

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 and black colors.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**11**	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	**165**	MPa	ISO 527
Strain at break	**5**	%	ISO 527
Charpy impact strength, +23°C	**70**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**20**	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	**200**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**210**	°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	**1380**	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

High impact or impact modified

Regional Availability

Europe

Chemical Resistance

Acid Resistance, Alkali Resistance, Oil Resistance