Armamid® PA6-1FR

PA6 R&P Polyplastic

Product Texts

This material displays high mechanical, physical and electrical properties; resilience to hydrocarbons (kerosene, gasoline, diesel fuel, benzene etc.), to mineral and synthetic oils, to concentrated and weak alkali. Available in natural, white, red, beige, light-brown and light-grey dye.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**28**	g/10min	ISO 1133
Temperature	**250**	°C	-
Load	**2.16**	kg	-
Molding shrinkage, parallel	**1.0**	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.0**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	**80**	MPa	ISO 527
Strain at break	**5**	%	ISO 527
Charpy impact strength, +23°C	**N**	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, 0.45 MPa	**185**	°C	ISO 75-1/-2
ASTM Data			
UL 94 Flame rating	**V-2**	-	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	**400**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Density	**1180**	kg/m³	ISO 1183

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

Characteristics

Processing

Injection Molding

Applications

Aircraft and Aerospace, Automotive, Electrical and Electronical

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

Europe

Chemical Resistance

Alkali Resistance, Oil Resistance