

Technical Datasheet

Armamid PA6 GF20 – 1FR – 9010



Product Description

An halogen-free flame retardant injection molding grade with great free-flow properties, good electrical properties, low smoke density, resistant to glow wire up to 960°C

Rheological properties	dry	Unit	Test Standard
Melt mass-flow rate, MFR, 275°C / 5 kg	100	g/10min	ISO 1133
Molding shrinkage, parallel	0,5	%	
Molding shrinkage, normal	0,7	%	
Mechanical properties	dry	Unit	Test Standard
Tensile modulus	8000	MPa	ISO 527-1/-2
Stress at break	100	MPa	ISO 527-1/-2
Strain at break	4	%	ISO 527-1/-2
Charpy impact strength, +23°C	60	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	7,0	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	5,0	kJ/m ²	ISO 179/1eA
Thermal properties	dry	Unit	Test Standard
Temp. of deflection under load, 1,80 MPa	190	°C	ISO 75-1/-2
Burning behavior at 2mm nom. thickn.	V-2	class	UL 94
Electrical properties	dry	Unit	Test Standard
Dissipation factor, 1MHz	150	E-4	IEC 62631-2-1
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
Comparative tracking index	500	V	IEC 60112
Electric strength	35	kV/mm	IEC 60243-1
Other properties	dry	Unit	Test Standard
Density	1340	kg/m ³	ISO 1183