

## Armamid PA6 1FRM Polyplastic

### Product Texts

Armamid PA6 1FRM is the non-reinforced modified flame retardant grade.

Mechanical properties	dry	Unit	Test Standard
Tensile strength	74	MPa	ISO 527-1/-2
Elongation at break	12	%	ISO 527-1/-2
Tensile modulus	4200	MPa	ISO 527-1/-2
Charpy impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	5,5	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	4,5	kJ/m <sup>2</sup>	ISO 179/1eA
Flexural strength	100	MPa	ISO 178
Flexural modulus	2900	MPa	ISO 178
Thermal properties	dry	Unit	Test Standard
Temp. of deflection under load, 1,80 MPa	60	C°	ISO 75-1/-2
Temp. of deflection under load, 0,45 MPa	180	C°	ISO 75-1/-2
Burning behavior at 2mm nom. thickn.	V-2	-	IEC 60695-11-10
Burning behavior at 1mm nom. thickn.	V-2	-	IEC 60695-11-10
Melting temperature	220	C°	ISO 11357 -1/-3
Electrical properties	dry	Unit	Test Standard
Dissipation factor, 1MHz	200	E-4	IEC 62631-2-1
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	6E15	Ohm	IEC 62631-3-1
Electric strength	30	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112
Other properties	dry	Unit	Test Standard
Density	1150	kg/m <sup>3</sup>	ISO 1183
Moulding shrinkage (parallel) D2	0.95	%	ISO 294-4
Moulding shrinkage (normal) D2	0.95	%	ISO 294-4
MFR 275 C°/5 kg (RH≤0.04%)	100	g/10min	ISO 1133
Processing			
Recommended humidity level (extrusion)	0.1-0.25	%	-
Recommended drying temperature	80	C°	-
Recommended drying time	4-8	hour	-
Melt temperature	250-280	C°	-
Mould temperature	40-60	C°	-