

DATASHEET

Product: FORMAMID PA6.6 Fibra Vetro 30% Naturale

Description: PA66 FV 30 NAT

(PA66 30 Glass fibre reinforced, thermal stabilized, injection moulding grade).

Properties			
Density	g/cm ³	ISO 1183	1,36
Humidity absorption	%	Similar ISO 62	1,7
Water absorption at 23°C 50% r.U	%	ISO 62	5,5
Melt flow index	cm ³ /10min	ISO 1133	-
Molding shrinkage (parallel)	%	ISO 294-4	0,45
Molding shrinkage (normal)	%	ISO 294-4	0,9
Physical properties			
Melting point, DSC	°C	ISO 3146	260
Mechanical properties			
Tensile modulus	MPa	ISO 527 - 2	9500
Tensile stress, yield	MPa	ISO 527 - 2	-
Stress at break	MPa	ISO 527 - 2	165
Yield strain	%	ISO 527 - 2	-
Strain at break	%	ISO 527 - 2	2,5
Flexural modulus	MPa	ISO 178	8500
Maximum Flexural stress	MPa	ISO 178	240
IZOD notched impact strength +23°C	KJ/m ²	ISO 180/1eA	10
IZOD notched impact strength -30°C	KJ/m ²	ISO 180/1eA	-
Thermal properties			
Heat distortion temperature under 1,8 Mpa load (HDT A)	°C	ISO 75 - 2	250
Heat distortion temperature under 0,45 MPa load (HDT B)	°C	ISO 75 - 2	-
Vicat softening point under 9,8 N load (Vicat A)	°C	ISO 306	-
Vicat softening point under 0,49 N load (Vicat B)	°C	ISO 306	-
Electical properties			
Volume resistivity	Ω*cm	IEC 60093	1,00E+13
Surface resistivity	Ω	IEC 60093	1,00E+14
Flammability			
Flammability rate at 0,8 mm thickness		UL94	HB
Flammability rate at 1,6 mm thickness		UL94	HB
Flammability rate at 3,2 mm thickness		UL94	HB
Comparative Tracking Index CTI	V	IEC 60112	550
Oxygen Index	%	ISO 4589-1/-2	24
Processing Parameters			
Melt temperature	°C	CYLINDER	285-305
Melt Mold	°C	MOLD	75-110
Drying Temperature	°C		80
Dry Time	h		2 - 4

*Processing conditions listed are for typical start-up conditions for comparison purposes. Most applications are part dependent and will require process adjustment after start-up