

Product

Product Description

VIPamid 6 G30 natur, 1A-Typ

PA6 %30 GLASS FIBER NATURAL (Heat Aging Stab.)
for injection applications

General Properties		Condition	Unit	D.A.M
ISO 1183	Density	-	g/cm ³	1,36
ISO 307	Relative Viscosity (RV)	%1(m/v) in %96 (m/m) H ₂ SO ₄	RV	-
ISO 307	Viscosity Number (VN)	%0,5(m/v) in %96 (m/m) H ₂ SO ₄	ml/gr	145 - 150
ISO 3451	Ash Content	750°C 30 min	%	30
ISO 62	Water absorption,	saturation in water 23 °C	%	6,6
ISO 62	Water absorption,(Equilibrium value)	50% RH, 23 °C	%	2,1
Processing Properties		Condition	Unit	D.A.M
The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is %0,10. Typical conditions with a desiccant drier: temperature 80 °C, dew point -20°C or below, time 2-4 h or more.				
ISO 11357-1/-3	Melting Temperature, DSC	-	°C	220
-	Melt Temperature, for processing	-	°C	220 - 240
-	Cylinder Settings	-	°C	220 - 260
-	Screw Design	-	-	Universal Type
-	Mould Temperature, injection moulding-	-	°C	60 - 100
ISO 294-4	Moulding shrinkage (parallel)	2 mm	%	0,30
ISO 294-4	Moulding shrinkage (normal)	2mm	%	1,00
Mechanical properties		Condition	Unit	D.A.M
ISO 527-2	Tensile Modulus	23°C	MPa	8000
ISO 527-2	Young Modulus	23°C	MPa	9200
ISO 527-2	Tensile Strenght at Break	23°C	MPa	160,0
ISO 527-2	Tensile Strenght at Yield	23°C	Mpa	125,0
ISO 527-2	Elongation at Break	23°C	%	4
ISO 527-2	Elongation at Yield	23°C	%	1,7
ISO 178	Flexural modulus	23°C	Mpa	8500
ISO 178	Flexural Strength	23°C	Mpa	270

VIP Kunststoff Vertrieb GmbH
 Reuther Str. 50 • 91301 Forchheim
 Sitz der Gesellschaft: Forchheim
 HRB Bamberg Nr. 1049
 Geschäftsführerin: Sonja Klinger

Telefon +49 (0) 9191 79800
 Telefax +49 (0) 9191 96800
 E-mail info@vip-fo.de
 Internet www.vip-fo.de

Sparkasse Forchheim
 BLZ (763 510 40) Kto. 8 045 809
 IBAN DE 60 7635 1040 0008 0458 09
 SWIFT-BIC BYLADEM1FOR
 UST-IdNr. DE132504341

Mechanical properties		Condition	Unit	D.A.M
ISO 179	Charpy notched, <i>Darbe Mukavemeti, çentikli</i>	23°C	kJ/m ²	14
		-30°C		10
ISO 179	Charpy unnotched <i>Darbe Mukavemeti, çentiksiz</i>	23°C	kJ/m ²	85
		-30°C		75
ISO 180/1A	Izod notched impact, <i>Darbe Mukavemeti, çentikli</i>	23°C	kJ/m ²	14,0
		-30°C		10,0
ISO 180/1U	Izod unnotched impact, <i>Darbe Mukavemeti, çentiksiz</i>	23°C	kJ/m ²	77
		-30°C		70
Thermal Properties		Condition	Unit	D.A.M
ISO 1133	MFR/MFI(Melt Flow Rate)	260 °C 2,16 kg	g / 10 min	-
ISO 1133	MVR(Melt Volume Rate)	260 °C 2,16 kg	cm ³ /10 min	-
ISO 306	VICAT	50 N - 50 °C/h	°C	215
ISO 75-2	HDT A	1,80 Mpa	°C	200
ISO 75-2	HDT B	0,45 Mpa	°C	215
Electrical Properties&Flammability		Condition	Unit	D.A.M
UL94	Flame Rating	1,6 mm	class	HB
ISO 3795 FMVSS (302)	FMVSS Class	class	-	B
ISO 3795 FMVSS (302)	Burning Rate	Thickness 1mm	mm/min	50
ISO 3795 FMVSS (302)	Burning Rate	Thickness 10 mm	mm/min	15
IEC 60695	GWFI <i>(Glow Wire Flammability Index)</i>	1,5 mm	°C	700
IEC 60695	GWIT <i>(Glow Wire Ignitability Index)</i>	1,5 mm	°C	-
IEC 60112	Comparative tracking index, CTI,	3 mm-Solution A	V	500
IEC 60093	Volume resistivity	-	ohm*m	1E+13
IEC 60093	Surface resistivity	-	ohm	1E+14

Please note that the mentioned technical properties in this document are averages obtained from tests made during production and are based on standard laboratory procedures and conditions. Therefore, the results may vary under different procedures

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