Product Comparison



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VAMPAMID 66 2530 V0 P60	PA66 resin 25% glass fiber reinforced, flar	ne retarded with red phosphorus for injection moulding
Generic Nylon 66 - Glass Fiber	This data represents typical values that ha Nylon 66 - Glass Fiber	ve been calculated from all products classified as: Generic
,	This information is provided for comparation	re purposes only.
General	VAMPAMID	Generic

General	VAMPAMID 66 2530 V0 P60	Generic Nylon 66 - Glass Fiber
Manufacturer / Supplier	Vamp Tech	Generic
Generic Symbol	Nylon 66	Nylon 66
Material Status	Commercial: Active	Commercial: Active
UL Yellow Card ¹	E140692-223037E140692-223036	
Search for UL Yellow Card	Vamp TechVAMPAMID	
Availability	Africa & Middle EastAsia PacificEuropeLatin AmericaNorth America	 Africa & Middle East Asia Pacific Europe Latin America North America
Filler / Reinforcement	 Glass Fiber, 25% Filler by Weight 	Glass Fiber
Features	Flame Retardant	
Processing Method	Injection Molding	
Also Available In		Asia PacificEuropeLatin AmericaNorth America

Physical	VAMPAMID 66 2530 V0 P60	Generic Nylon 66 - Glass Fiber	Unit	Test Method
Density / Specific Gravity				
		1.18 to 1.58		ASTM D792
	1.34	1.19 to 1.58	g/cm³	ISO 1183
		0.0492	lb/in³	ISO 1183 ³
Apparent (Bulk) Density		0.70 to 0.71	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR)				
275°C/2.16 kg		6.0 to 31	g/10 min	ASTM D1238
275°C/0.325 kg		1.0 to 3.1	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)		10 to 51	cm³/10min	ISO 1133
Spiral Flow		2.87 to 20.5	in	
Molding Shrinkage				
Flow	6.0E-3	1.0E-3 to 0.064	in/in	ASTM D955
Across Flow	0.010	3.5E-3 to 0.020	in/in	ASTM D955
		3.0E-3 to 1.2	%	ISO 294-4

Form No. TDS-70566-118383-en

Document Created: Sunday, February 18, 2024



Physical	VAMPAMID 66 2530 V0 P60	Generic Nylon 66 - Glass Fiber	Unit	Test Method
Water Absorption				
24 hr		0.23 to 1.0	%	ASTM D570
24 hr, 73°F	0.90		%	ASTM D570
24 hr, 73°F		0.23 to 1.1	%	ISO 62
Saturation		0.010 to 6.1	%	ASTM D570
Saturation, 73°F		3.9 to 7.1	%	ISO 62
Saturation		5.5	%	ISO 62 ³
Equilibrium		0.79 to 2.2	%	ASTM D570
Equilibrium, 73°F, 50% RH		0.93 to 2.2	%	ISO 62
Equilibrium		1.6	%	ISO 62 ³
K-Value		75.9 to 76.1		ISO 1628-2
Viscosity Number (Reduced Viscosity)		143.8 to 150.0	ml/g	ISO 1628
Viscosity Number				
		128 to 151	cm³/g	ISO 307
		143	cm³/g	ISO 307, 1157, 1628 ³
Heat Stability		221 to 298	°F	
Mechanical	VAMPAMID 66 2530 V0 P60	Generic Nylon 66 - Glass Fiber	Unit	Test Method
Tensile Modulus				
		619000 to 2.05E+6	psi	ASTM D638
	1.16E+6	685000 to 1.70E+6	psi	ISO 527-1
		1.18E+6	psi	ISO 527-2 ³
Tensile Strength				
Yield		11800 to 29700	psi	ASTM D638
Yield		10600 to 33900	psi	ISO 527-2
Break		11500 to 32000	psi	ASTM D638
Break	16700	10100 to 35600	psi	ISO 527-2
Break		23200	psi	ISO 527-2 ³
Ultimate		16900 to 29000	psi	ASTM D638
		11900 to 33500	psi	ASTM D638
		7540 to 39800	psi	ISO 527-2
Tensile Elongation				
Yield		1.9 to 3.6	%	ASTM D638
Yield		1.8 to 3.6	%	ISO 527-2
Break		1.0 to 700	%	ASTM D638
Break	2.5	2.0 to 3.6	%	ISO 527-2
Break		2.5 to 3.1	%	ISO 527-2 ³
Flexural Modulus				
		524000 to 1.72E+6	psi	ASTM D790
		584000 to 1.67E+6	psi	ISO 178

2 of 6



	VAMPAMID 66 2530 V0 P60	Generic Nylon 66 - Glass Fiber	Unit	Test Method
Flexural Strength	00 2530 VU P00	Nylon 66 - Glass Fiber		
		16300 to 44600	psi	ASTM D790
		17700 to 55500	psi	ISO 178
Yield		19400 to 49000	psi	ASTM D790
Break		16000 to 49600	psi	ASTM D790
Compressive Strength		10000 to 49000	ры	AOTIVI DI 90
		2900 to 40000	psi	ASTM D695
		6240 to 38400	•	ISO 604
Chear Strangth		9930 to 15200	psi	ASTM D732
Shear Strength			psi	
Poisson's Ratio		0.34 to 0.40		ASTM E132
Coefficient of Friction		0.18 to 0.59		ASTM D1894
Wear Factor		0.0 to 75	10^-10 in ³ ·min/ ft·lb·hr	ASTM D3702
mpact	VAMPAMID 66 2530 V0 P60	Generic Nylon 66 - Glass Fiber	Unit	Test Method
Charpy Notched Impact Strength				
		2.7 to 7.2	ft·lb/in²	ISO 179
-22°F		3.14	ft·lb/in²	ISO 179/1eA
73°F		3.75	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength				
		14 to 49	ft·lb/in²	ISO 179
-22°F		28.6	ft·lb/in²	ISO 179/1eU
73°F		31.2	ft·lb/in²	ISO 179/1eU
Notched Izod Impact		01.2	TC 1D/111	130 179/160
		0.67 to 3.1	ft·lb/in	ASTM D256
		1.0 to 7.6	ft·lb/in²	ISO 180
	3.8		ft·lb/in²	ISO 180/A
Notched Izod Impact (Area)		2.68 to 8.65	ft·lb/in²	ASTM D256
Unnotched Izod Impact				
		6.5 to 30	ft·lb/in	ASTM D4812
	21	14 to 43	ft·lb/in²	ISO 180
Instrumented Dart Impact				
		44.3 to 111	in∙lb	ASTM D3763
		0.516 to 3.11	ft·lb	ISO 6603-2
Multi-Axial Instrumented Impact Peak Force		130 to 249	lbf	ISO 6603-2
Tensile Impact Strength		5.40 to 15.9	ft·lb/in²	ASTM D1822
Hardness	VAMPAMID 66 2530 V0 P60	Generic Nylon 66 - Glass Fiber	Unit	Test Method
Rockwell Hardness				
		114 to 125		ASTM D785
		95 to 122		ISO 2039-2
Shore Hardness		78 to 81		ISO 868

3 of 6



Thermal	VAMPAMID 66 2530 V0 P60	Generic Nylon 66 - Glass Fiber	Unit	Test Method
Deflection Temperature Under Load				
66 psi, Unannealed		480 to 502	°F	ASTM D648
66 psi, Unannealed		477 to 506	°F	ISO 75-2/B
66 psi		482	°F	ISO 75-2 ³
264 psi, Unannealed	455	426 to 499	°F	ASTM D648
264 psi, Unannealed		441 to 499	°F	ISO 75-2/A
264 psi, Annealed		454 to 491	°F	ASTM D648
264 psi		482	°F	ISO 75-2 ³
1160 psi, Unannealed		158 to 456	°F	ISO 75-2/C
Continuous Use Temperature				
	248		°F	
		188 to 362	°F	ASTM D794
Glass Transition Temperature		41.0 to 176	°F	ISO 11357-2
Vicat Softening Temperature				
		444 to 501	°F	ASTM D1525
		438 to 491	°F	ISO 306
Melting Temperature				
		488 to 511	°F	
		499 to 509	°F	DSC
		500 to 507	°F	ISO 11357-3
		488 to 501	°F	ASTM D3418
		499 to 501	°F	ISO 3146
CLTE				
Flow		9.2E-6 to 4.4E-5	in/in/°F	ASTM D696
Flow		5.0E-6 to 2.4E-5	in/in/°F	ASTM E831
Flow		6.6E-6 to 2.3E-5	in/in/°F	ISO 11359-2
Transverse		5.6E-7 to 5.5E-5	in/in/°F	ASTM D696
Transverse		2.1E-5 to 4.4E-5	in/in/°F	ASTM E831
Transverse		3.1E-5 to 6.4E-5	in/in/°F	ISO 11359-2
Specific Heat		0.297 to 0.478	Btu/lb/°F	ASTM C351
Thermal Conductivity				
		1.3 to 4.0	Btu·in/hr/ft²/°F	ASTM C177
		1.4 to 2.7	Btu·in/hr/ft²/°F	ISO 8302
RTI Elec		149 to 287	°F	UL 746B
RTI Imp		149 to 267	°F	UL 746B
RTI Str		149 to 287	°F	UL 746B
Electrical	VAMPAMID 66 2530 V0 P60	Generic Nylon 66 - Glass Fiber	Unit	Test Method
Surface Resistivity				
<u>-</u>		10 to 2.5E+15	ohms	ASTM D257
		20 to 2.5E+15	ohms	IEC 60093
		1.0E+2 to 6.0E+15	ohms	IEC 62631-3-2

4 of 6



Floatrical	VAMPAMID	Generic	1.164	Toot Mother d
Electrical	66 2530 V0 P60	Nylon 66 - Glass Fiber	Unit	Test Method
Volume Resistivity				
		1.0E+2 to 2.5E+16	ohms·cm	ASTM D257
		10 to 7.5E+15	ohms·cm	IEC 60093
		1.0E+9 to 1.3E+15	ohms⋅m	IEC 62631-3-1
Dielectric Strength				
		420 to 640	V/mil	ASTM D149
		460 to 1200	V/mil	IEC 60243-1
Dielectric Constant				
		2.91 to 4.09		ASTM D150
		3.47 to 4.11		IEC 60250
		3.69		IEC 60250
		3.75		IEC 62631-2-1
Dissipation Factor				
		0.010 to 0.021		ASTM D150
		6.8E-3 to 0.021		IEC 60250
		9.0E-3 to 0.017		IEC 62631-2-1
1 MHz		0.018		IEC 60250 ³
Arc Resistance		63.5 to 130	sec	ASTM D495
Comparative Tracking Index (CTI)		540 to 600	V	UL 746A
Comparative Tracking Index				
	600	400 to 600	V	IEC 60112
		500		IEC 60112 ³
Flammability	VAMPAMID 66 2530 V0 P60	Generic Nylon 66 - Glass Fiber	Unit	Test Method
Burning Rate		0.0 to 4.0	in/min	ISO 3795
Flame Rating				UL 94
0.06 in	V-0			
0.13 in	V-0			
Glow Wire Flammability Index				IEC 60695-2-12
		1200 to 1760	°F	
0.04 to 0.08 in	1760		°F	
Glow Wire Ignition Temperature		1200 to 1760	°F	IEC 60695-2-13
Oxygen Index				
		25 to 34	%	ASTM D2863
		23 to 27	%	ISO 4589-2
Fill Analysis	VAMPAMID 66 2530 V0 P60	Generic Nylon 66 - Glass Fiber	Unit	
Melt Density		1.12 to 1.28	g/cm³	
Ejection Temperature		410	°F	
njection	VAMPAMID 66 2530 V0 P60	Generic Nylon 66 - Glass Fiber	Unit	
Drying Temperature	194	172 to 180	°F	
Drying Time	3.0	2.8 to 5.3	hr	
Drying Time, Maximum		8.0	hr	
Dew Point		-1 to 0	°F	

5 of 6

Form No. TDS-70566-118383-en

Document Created: Sunday, February 18, 2024





njection	VAMPAMID 66 2530 V0 P60	Generic Nylon 66 - Glass Fiber	Unit	
Suggested Max Moisture		2.0E-3 to 0.63	%	
Suggested Shot Size		50	%	
Suggested Max Regrind		25	%	
Hopper Temperature		158 to 167	°F	
Rear Temperature		507 to 552	°F	
Middle Temperature		514 to 563	°F	
Front Temperature		517 to 572	°F	
Nozzle Temperature		516 to 577	°F	
Processing (Melt) Temp	527	513 to 566	°F	
Melt Temperature (Optimum)		535	°F	
Mold Temperature	194	158 to 217	°F	
Injection Pressure		1000 to 14400	psi	
Holding Pressure		8610 to 10900	psi	
Back Pressure		21.3 to 256	psi	
Screw Speed		38 to 83	rpm	
Cushion		0.184 to 0.375	in	
Vent Depth		7.5E-4 to 2.3E-3	in	

Generic Nylon 66 - Glass Fiber This data represents typical values that have been calculated from all products classified as: Generic Nylon 66 - Glass Fiber

This information is provided for comparative purposes only.

Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.

³ Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.