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尼龍-66 — 25%玻璃纖維級 PA-66 — 25% GLASS FIBER GRADE NYLON TECHNOL A 20 V25

性能 Properties	測驗方法 Test Method	單位 Units	測試條件 Conditions	相對濕度 % RH %	TECHNYL A 20 V25
物理性能 Physical Properties					
填充成份 Filler Content	-	%	-	-	25
比重 Density	ISO 1183	g/cm ³	-	-	1.38
吸水率 Water Absorption	ISO 62	%	24h in water at 23°C	-	0.75
收縮率 Mold Shrinkage	Nyltech	%	direction //	-	0.5
			direction T		0.9
熱性能 Thermal Properties					
融點 Melting Point	ISO 3146-C	°C	DSC	-	260
線性膨脹系數 Coefficient of Linear Expansion	ASTM E831	10 ⁻⁵ K ⁻¹	longit. 23°C-80°C	-	3
熱變形溫度 Heat Deflection Temperature	ISO 75-2	°C	0.45 MPa	-	>250
			1.8 MPa		250
機械性能 Mechanical Properties					
拉伸強度 Tensile Strength	ISO 527-2	MPa	斷裂強度/最大負荷 stress at break /max load	0% / 50%	160 / 120
斷裂伸長率 Nominal Elongation At Break	ISO 527-2	%	-	0% / 50%	2 / 4
拉伸模量 Tensile Modulus	ISO 527-2	MPa	-	0% / 50%	9,000 / 6,500
彎曲強度 Flexural Strength	ISO 178	MPa	斷裂強度/最大負荷 Stress at break /max load	0% / 50%	250 / 155
彎曲模量 Flexural Modulus	ISO 178	MPa	-	0% / 50%	7,500 / 6,000
Charry 衝擊強度 (非缺口) Charpy Impact Strength (unnotched)	ISO 179 / 1eU	kJ/m ²	-	0% / 50%	50 / 60
Charry 衝擊強度 (缺口) Charpy Impact Strength (notched)	ISO 179 / 1eA	kJ/m ²	-	0% / 50%	8 / 9
Izod 衝擊強度 (缺口) Izod Impact Strength (notched)	ISO 180 / 1A(93)	kJ/m ²	-	0% / 50%	8 / 9
硬度 Hardness Rockwell	ISO 2039-2	R-Scale	-	0% / 50%	120 / 115
電性能 Electrical Properties					
體積電阻系數 Volume Resistivity	IEC 93	Ω.cm	-	0% / 50%	10 ¹⁵ / 10 ¹³
表面電阻系數 Surface Resistivity	IEC 93	Ω	-	0% / 50%	10 ¹³ / 10 ¹²
耐電壓 Dielectric Strength	IEC 243-1	kV/mm	-	0% / 50%	25 / 25
相對介電常數 Relative Permittivity	IEC 250	-	50 Hz	0% / 50%	3.6 / 4.8
			1 MHz		3.4 / 4
介電損耗因數 Dissipation Factor	IEC 250	-	50 Hz	0% / 50%	0.02 / 0.07
			1 MHz		0.02 / 0.05
抗電弧痕跡指數 Comparative Tracking Index	IEC 112	V	CTI / CTI M	0%	375 / 350
氧指數 Oxygen Index	ISO 4589	%	-	-	30.5
金屬線 Glow Wire	IEC 695-2-1	°C	-	-	960 (1.6mm)
燃燒性 Flammability	UL 94	-	-	-	V-0 (0.75mm)

The data are intended as a general guide only, makes no guarantee of results and assumes no obligation or liability.