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尼龍-6 — 15%玻璃纖維級 PA-6 — 15% GLASS FIBER GRADE NYLON GRILON BG-15/2

性能 Properties	測驗方法 Test Method	測試條件 Conditions		單位 Units	GRILON BG-15/2
物理性能 Physical Properties					
填充成份 Filler Content	-	-		%	15
比重 Density	DIN 53479	dry 乾燥時		kg/cm ³	1.23
吸水率 Water Absorption	DIN 534717	23°C/50% rh		%	2-2.5
成形收縮率 Linear Molding Shrinkage	EMS	-		%	0.3-1.1
熱性能 Thermal Properties					
融點 Melting Point	EMS	DSC max	dry 乾燥時	°C	222
熱變形溫度 Heat Deflection Temperature	DIN 53461	HDT/A (1.82 N/mm ²)	annealed	°C	193
		HDT/B (0.46 N/mm ²)	5 hr/150°C		211
熱膨脹系數 Coefficient of Linear Thermal Expansion	DIN 52328	dry 乾燥時		K ⁻¹	5.10 ⁻⁵
最高使用溫度 Maximal Usage Temperature	EMS	long term / short term	dry 乾燥時	°C	80 / 160
軟化點 Vicat Softening Point	DIN 53460	9.81 N (A) / 49.05 N (B)		°C	218 / 208
燃燒性 Flammability	UL 94	-		rating	HB (0.79mm)
機械性能 Mechanical Properties					
拉伸強度 Tensile Strength	DIN 53455	yield / break	dry 乾燥時	N/mm ²	- / 135
			cond. 吸濕後		75 / 70
拉伸長度 Tensile Elongation	DIN 53455	yield / break	dry 乾燥時	%	- / 4
			cond. 吸濕後		4 / 7
拉伸模量 Tensile E-Modulus	DIN 53455	dry 乾燥時		N/mm ²	7,000
		cond. 吸濕後			3,500
衝擊強度 Impact Strength	DIN 53453	0°C / -40°C	dry 乾燥時	kJ/m ²	30 / 30
			cond. 吸濕後		65 / 35
Charpy 衝擊強度 Charpy Impact Strength	DIN 53453	0°C / -40°C (notched)	dry 乾燥時	kJ/m ²	7 / 6
			cond. 吸濕後		20 / 6
硬度 Hardness	DIN 53505	shore D	dry 乾燥時	-	83
			cond. 吸濕後		73
電性能 Electrical Properties					
耐電壓 Dielectric Strength	DIN 53481	dry 乾燥時		kV/mm	37
		cond. 吸濕後			32
比較痕跡指數 Tracking Resistance	DIN 53480	KC	dry 乾燥時	V	550
			cond. 吸濕後		500
體積電阻系數 Volume Resistivity	DIN 53482	dry 乾燥時		Ω.cm	10 ¹⁴
		cond. 吸濕後			10 ¹¹

1) No tensile limit attained

2) N.B. = No break

The test values <conditioned> were attained on test pieces stored according to ISO 1110.

上列數據僅供參考，並不為此承擔任何責任和保證。

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