

Hill's Premier Polymers Ltd

Fernbank Mill, Barnoldswick BB18 5RZ

Tel : 01282 850777 Fax: 01282 850222

NYLON 6 50% Glass Fibre Filled

PROPERTY	TEST METHOD ASTM	TEST METHOD ISO EQUIV	UNITS	VALUE
Physical				
Specific gravity	D792	ISO 1183	kg/m ³	1.55
Water Absorbtion	D570	ISO 62	%	0.6
Mould Shrinkage (flow)		ISO 2577	%	0.2
Mechanical				
Tensile Strength	D638	ISO 527	MPa	220/160
Elongation at break	D638	ISO 527	%	3
Flexural Strength	D790	ISO 178	MPa	320/240
Flexural modulus	D790	ISO 178	Gpa	15000/9000
Notched Charpy Impact		ISO 179/1eA	kJ/m ²	70
Unnotched Charpy Impact		ISO 179/1eU	kJ/m ²	
Thermal				
Melting Point		ISO 3146	C°	220
Vicat Softening Point	D789	ISO 12188	C°	
Deflection Temperature	D648	ISO 75	C°	
			A 1.85 Mpa	215
			A0.46 Mpa	220
Flammability				
UL94 m/m		ISO 75		HB
Electrical				
Current Tracking Index		IEC 112	Volt	450

ALL DATA GENERATED FROM SPECIMENS MOULDED IN NATURAL MATERIAL, STORED IN A DRY ATMOSPHERE (NO MORE THAN 0.2% MOISTURE). THE INCLUSION OF COLOUR PIGMENTS OR OTHER ADDITIVES MAY CHANGE SOME OF THE TEST RESULTS.

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