

# Hills Premier Polymers Ltd

Fernbank Mill, Barnoldswick BB18 5RZ

Tel : 01282 850777 Fax: 01282 850222

## NYLON 6 45% Glass Fibre Filled

PROPERTY	TEST METHOD ASTM	TEST METHOD ISO EQUIV	UNITS	VALUE
<b>Physical</b>				
Specific gravity	D792	ISO 1183	kg/m <sup>3</sup>	1.5
Water Absorbtion	D570	ISO 62	%	0.8
Mould Shrinkage (flow)		ISO 2577	%	0.2- 0.3
<b>Mechanical</b>				
Tensile Strength	D638	ISO 527	MPa	200/135
Elongation at break	D638	ISO 527	%	4.5
Flexural Strength	D790	ISO 178	MPa	300/220
Flexural modulus	D790	ISO 178	Gpa	12/7.5
Notched Charpy Impact		ISO 179/1eA	kJ/m <sup>2</sup>	18/25
Unnotched Charpy Impact		ISO 179/1eU	kJ/m <sup>2</sup>	900/100
<b>Thermal</b>				
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	225
<b>Flammability</b>				
UL94 m/m		ISO 75		HB
<b>Electrical</b>				
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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