

Hills Premier Polymers Ltd

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NYLON 6 10% Glass Fibre Filled

PROPERTY	TEST METHOD ASTM	TEST METHOD ISO EQUIV	UNITS	VALUE
				10%
Physical				
Specific gravity	D792	ISO 1183	kg/m ³	1.21
Water Absorbtion	D570	ISO 62	%	2.3
Mould Shrinkage (flow)		ISO 2577	%	0.5
Mechanical				
Tensile Strength	D638	ISO 527	MPa	100
Elongation at break	D638	ISO 527	%	6
Flexural Strength	D790	ISO 178	MPa	165
Flexural modulus	D790	ISO 178	Gpa	4.7
Notched Charpy Impact		ISO 179/1eA	kJ/m ²	7.2
Unnotched Charpy Impact		ISO 179/1eU	kJ/m ²	44
Thermal				
Melting Point		ISO 3146	C°	220
Vicat Softening Point	D789	ISO 12188	C°	
Deflection Temperature	D648	ISO 75	C°	
			A 1.85 Mpa	195
			A0.46 Mpa	210
Flammability				
UL94	m/m	ISO 75		HB

ISO 9002 N° 1982/99 (ISOQAR)

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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