

## TECHNICAL DATA SHEET

### NYFLEX 1004

PROPERTIES	METHOD	UNIT	VALUE
<b>PHYSICAL PROPERTIES</b>			
Specific Gravity	ASTM D 792	g/cm <sup>3</sup>	1.22
Water Absorption (24h/23°C)	ASTM D 570	%	0.52
Melting Point (DSC)	ASTM D 3417	° C	203
Melt Flow Index (230°C/2.16 kg)	ASTM D 1238	g/10 <sup>min</sup>	6
<b>MECHANICAL PROPERTIES</b>			
Tensile Strength			
• at yield	ASTM D 638	MPa	/
• at break	ASTM D 638	MPa	34
Elongation at Break	ASTM D 638	%	700
Flexural Modulus	ASTM D 790	MPa	290
Tear Strength (Method B)	ASTM D 724B	N/mm	155
Fatigue Resistance	ASTM D 1052	mm/Kcicli	6/50
IZOD Impact Strength Notched			
• at 23°C	ASTM D 256/A	J/m	800
• at - 30°C	ASTM D 256/A	J/m	130
• at - 40°C	ASTM D 256/A	J/m	/
Abrasion Resistance (Taber H18 - 1 kg)	ASTM D 1044	mg/Kcicli	73
SHORE D Hardness	ASTM D 2240	Punti	56
<b>THERMAL PROPERTIES</b>			
VICAT Softening Point 1 kg /120°C	ASTM D 1525	° C	188
H.D.T. Method B (0.4552 MPa)	ASTM D 648	° C	88
<b>FLAMMABILITY PROPERTIES</b>			
Oxygen Index	ASTM D 2863	/	20
Fire Resistance (1.6mm)	UL 94	/	/
<b>ELECTRICAL PROPERTIES</b>			
Volume Resistivity			
• at 23°C	ASTM D 257	Ω cm	> 10 <sup>13</sup>
• at 100°C	ASTM D 257	Ω cm	> 10 <sup>12</sup>
Dielectric Strength (at 1.6mm)			
• at 2.0mm - 23°C	ASTM D 149	kV/mm	18
• at 3.2mm - 23°C	ASTM D 149	kV/mm	/
Dielectric Constant			
• at 1 KHz	ASTM D 150	/	3.8
• at 100 KHz	ASTM D 150	/	3.7
Dissipation Factor Tan δ			
• at 1 KHz	ASTM D 150	/	0.011
• at 100 KHz	ASTM D 150	/	0.024

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