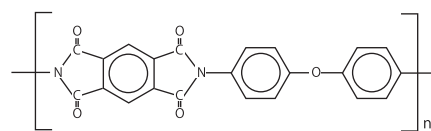


Property Table

MELDIN[®] [Wholly Aromatic Polyimide]



PMDA type (pyromellitic dianhydride)

MELDIN[®] 7001 (Natural Grade)

MELDIN[®] 7021 (Sliding Grade)

※Meldin is registered trademark of Saint Gobain S.A.

Properties	Test method ASTM	Unit	MELDIN [®] 7001 (Natural)	MELDIN [®] 7021 (Graphite15%)
● Physical properties				
Specific Gravity	D-792	-	1.43	1.51
Water Absorption 23°C	D-570	%	24hr	0.23
			48hr	0.64
● Mechanical properties				
Tensile Strength (23°C)	D-638	MPa	23°C	86.2
			(260°C)	43.0
Tensile Elogation (23°C)	D-638	%	23°C	8.0
			(260°C)	5.0
Flexural Strength (23°C)	D-790	MPa	23°C	109
			(260°C)	62.7
Flexural Modulus (23°C)	D-790	GPa	23°C	3.1
			(260°C)	1.7
Compression modulus (23°C)	D-695	GPa	2.6	3.1
Compressive stress(1% strain)	D-695	MPa	1% strain	26.2
			(10% strain)	127.5
Rockwell Hardness (E scale)	D-785	-	40 - 55	25 - 40
● Thermal properties				
Continuous service temperature	-	°C	315	-
Thermal expansion coefficient (23-260°C)	E-831	×10 ⁻⁵ /°C	4.9	4.0
Thermal conductivity	F-433	W/m · °C	0.34	0.71
● Electrical property				
Surface resistance	D-257	Ω	10 ¹⁵ - 10 ¹⁶	10 ⁸ - 10 ⁹
Dielectric strength (2mm Short time)	D-149	MV/m	22.9	11
Dielectric constant	D-150	-	(100Hz)	3.18
			(10kHz)	3.16
			(1MHz)	3.14

The above values are for reference only and are not guaranteed.

YP16-MELDIN-10