

M - 010

GENERAL PROPERTIES		Unit	Test method	Value	
				Chemical resistance	High stiffness
Density	g/cm <sup>3</sup>	DIN EN ISO 1183-1		1,1	1,3
Water absorption	%	DIN EN ISO 62		0,1	0
Flammability		UL 94		HB /HB	HB/HB
MECHANICAL PROPERTIES					
Yield stress	Mpa	DIN EN ISO 527		50	70
Elongation at break	%	DIN EN ISO 527		10	3
Tensile modulus of elasticity	Mpa	DIN EN ISO 527		2390	4500
Notched impact strength	kJ/m <sup>2</sup>	DIN EN ISO 179		11	5
Shore hardness	scale D	DIN EN ISO 868		82	87
Rockwell hardness	scale R	DIN EN ISO 2039-2		n.t.	n.t.
THERMAL PROPERTIES					
Thermal conductivity	W/(m*K)	DIN 52612-1		0,23	n.t.
Thermal capacity	KJ/(kg*K)	DIN 52612		1,2	1,3
Coefficient of linear thermal expansion	10 <sup>-6</sup> /K	DIN 53752		80	n.t.
Service temperature long term	°C	Average		-40 / 100	-20 / 100
Service temperature short term max.	°C	Average		110	110
Vicat softening temperature	°C	DIN EN ISO 306, Vicat B		n.t.	n.t.
Heat deflection temperature	°C	DIN EN ISO 75, Verf. A, HDT		100	135
ELECTRICAL PROPERTIES					
Volume resistivity	Ω	DIN EN 61340		n.t.	n.t.
Surface resistivity	Ω	DIN EN 61340		n.t.	n.t.
Volume resistivity	Ω * cm	IEC 60093		10 <sup>15</sup>	10 <sup>15</sup>
Surface resistivity	Ω	IEC 60093		10 <sup>15</sup>	10 <sup>15</sup>
Dielectric constant		IEC 60250		2,8	n.t.
Dielectric dissipation factor (50 Hz)		IEC 60250		0,008	n.t.
Comparative tracking index		IEC 60112		450	n.t.
Dielectric strength	Kv/mm	IEC 60243		30	25