

M - 005

GENERAL PROPERTIES	Unit	Test method	Value	
			Stiffness & Rigidity	Low creep tendency
Density	g/cm ³	DIN EN ISO 1183-1	1,4	1,5
Water absorption	%	DIN EN ISO 62	0,1	0,1
Flammability		UL 94	VO / VO	VO / VO
MECHANICAL PROPERTIES				
Yield stress	Mpa	DIN EN ISO 527	120	80
Elongation at break	%	DIN EN ISO 527	7	5
Tensile modulus of elasticity	Mpa	DIN EN ISO 527	6500	6000
Notched impact strength	kJ/m ²	DIN EN ISO 179	n.t.	3
Shore hardness	scale D	DIN EN ISO 868	91	89
Rockwell hardness	scale R	DIN EN ISO 2039-2	n.t.	n.t.
THERMAL PROPERTIES				
Thermal conductivity	W/(m*K)	DIN 52612-1	0,92	0,43
Thermal capacity	KJ/(kg*K)	DIN 52612	n.t.	n.t.
Coefficient of linear thermal expansion	10 ⁻⁶ /K	DIN 53752	25	30
Service temperature long term	°C	Average	-20 / 250	-20 / 250
Service temperature short term max.	°C	Average	310	310
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	315	315
Crystalline grain melting range	°C	ISO 11357-3	343	343
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 ⁴	10 ¹⁴
Surface resistivity	Ω	IEC 60093	< 10 ⁴	10 ¹³
Dielectric constant		IEC 60250	n.t.	3,2
Dielectric dissipation factor (50 Hz)		IEC 60250	n.t.	0,001
Comparative tracking index		IEC 60112	n.t.	175
Dielectric strength	Kv/mm	IEC 60243	n.t.	20