Technical Properties

Physical	Unit	Test Method	Result
Maximum service temp. Upper temp limit - short term	°C		70
Maximum service temp. Upper temp limit - Long term	°C		60
Specific gravity	g/cm³	ISO 1183	1.27
Mechanical	**Unit**	**Test Method**	**Result**
Tensile strength	MPa	ISO 527	50
Elongation at yield	%	ISO 527	60
Unnotched Impact strength	kJ/m²	ISO 179-1	no break
Notch impact strength	kJ/m²	ISO 179-1/1eA	7
Ball indentation / Rockwell hardness	MPa	ISO 2039-1	105
Flexural modulus of elasticity	MPa	ISO 178	1900
Tensile modulus of elasticity	MPa	ISO 527-2	2000
Thermal	**Unit**	**Test Method**	**Result**
Vicat-softening point VST/B/50	°C	ISO 306	70
Heat deflection temperature HDT/B	°C	ISO 75-2	72/68
Coefficient of linear thermal expansion 23°C - 100°C	m/(m.K)	ISO 11359-2	0.068
Thermal conductivity at 23°C	W/mK	ISO 22007-1	0.20
Electrical	**Unit**	**Test Method**	**Result**
Volume resistivity	Ω x m	IEC 60093	10(15)
Surface resistivity	Ω	IEC 60093	10(16)
Dielectric constant at 1MHz		IEC 250	2.6
Dielectric loss factor at 1 MHz		IEC 250	0.01
Dielectric strength	kV/mm	IEC 60243-1	16
Additional Data	**Unit**	**Test Method**	**Result**
Food compliance - FDA		FDA	Yes
Food compliance - EU		EU 10/2011	Yes
Flammability	**Unit**	**Test Method**	**Result**
Fire performance		13501-1 Din 4102-1	B-s1,d0 B1
Optical	**Unit**	**Test Method**	**Result**
Light Transmission	%	ISO 13468-1	88
Refractive index	nD 20	ISO 489	1.57
Haze	%	ISO 14782	
Solar energy transmittance g- value	%	EN 410	3 mm-82.4 & 10 mm-79.4

All information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.