Physical properties of extruded P.M.M.A.			
Mechanical properties	**Value**	**Unit**	**Standard**
Density	1,18	g/cm^3	DIN 53479
Impact strength (standard small test specimen)	12	kJ/m^2	DIN 53453
Notched impact strength (standard small test specimen)	2	kJ/m^2	DIN 53453
Tensile strength (1/1 test specimen 3; V= 5 mm./min)	72	N/mm^2	DIN 53455
Elongation at break (1/1 test specimen 3; V= 5 mm./min)	4,5	%	DIN 53455
Flexure strength (test specimen 80x10x4 mm.)	105	N/mm^2	DIN 53452
Compressive yeald stress	103	N/mm^2	DIN 53454
Modulus of elasticity	3300	N/mm^2	DIN 53457
Dynamic shear modulus at c. 10 Hz	1700	N/mm^2	DIN 53445
Indentation hardness brinell $H_{961/30}$	190	N/mm^2	DIN 53456
Optical properties			
Transmittance of 3 mm. thick material in the visible range	~ 92	%	DIN 5036
Refractive index n^{20}_D	1,491		DIN 53491
Thermal properties			
Coefficient of linear thermal expansion (0...50 °C)	70 - 10^{-6}	1/°C	VDE 0304/1
Thermal conductivity	0,19	W/m°C	DIN 52612
U-Value at thickness of 3 mm. of 5 mm. of 10 mm.	 5,6 5,3 4,4	W/m°C	DIN 4701
Forming temperature (oven temperature)	~150	°C	
Demoulding temperature	>80	°C	
Maximum continuos service temperature	70	°C	
Vicat softening temperature method B	102	°C	DIN 53460
Heat distortion temperature ISO 75, deflection 1,80 $N/mm^2$2	90	°C	DIN 53461
Dimensional stability under heat acc. to Martens method	85	°C	DIN 53458
Flammability rating	HB	-	UL 94
Electrical properties			
Volume resistivity	> 10^{15}	Ohm-cm	DIN 53482
Surface resistance	5 - 10^{13}	Ohm	DIN 53482
Dielectric strength (test specimen thick 1 mm.)	~30	kV/mm	DIN 53481
Dielectric constant at 50 Hz at 0,1 MHz	 3,6 2,7		DIN 53483
Dissipation factor at 50 Hz at 0,1 MHzz	 0,06 0,02		DIN 53483
Tracking resistance	KC>600		DIN 53480
Behaviour towards water			
Water absorption in weight gain after 24 hrs immersion	0,3	%	DIN 53495