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PVC **(POLYVINILCLORURE)**
MATERIAL DATA SHEET

	PROPERTIES	TEST METHOD DIN	UNIT	RIGID				SEMI RIGID	FLEX			
				SHEETS		RODS	TUBES	SHEETS	IVORY	KRI	POLAR	SUPER POLAR
				COL.	TRA.				SHEETS	SHEETS	SHEETS	SHEETS
MECHANICAL	Density	53479	g/cm^3	1,43	1,4	1,4	1,42	1,34	1,3	1,22	1,19	1,19
	Tensile strength at break	53455	MPa	55	54	55	≥50	23	12	17	13	13
	Elongation at break	53455	%	21	>25	>18	>15	216	290	400	440	440
	Modulus of elasticity	53457	MPa	3000	>3200	3000	3000					
	Notced impact strength at 23°C	53453	Kj/m^2	5,5	4	4						
	Shore hardness	53505	Scala D	81	81	80		50				
THERMAL	VICAT softening point	53460	°C						71	76	64	64
	Coefficient of linear thermic expans.	53752	$K^{-1}x10^{-4}$	80	78	75						
	Thermal conductivity	52612	W/mk	0,8	0,8	0,8	0,8					
	Crystaline grain melting point		°C	0,2	0,15	0,14	0,15					
	Cold brittle temperature		°C							-30	-45	-45
ELECTR.	Dielectric strength	53481	Kv/mm	35	20	32						
	Surface resistivity	53482	Ohm	10^{13}	10^{14}	10^{13}	10^{13}					
	Dielectric constant at 1 MHz	53483		3	3	3						
GENERAL	Fire behavior	UL94		V0	V0	V0						
		4102		B1	B1	B1	B1					
	Water absorption	53495	%	0,2	0,2	0,2						
	Non toxicity			NO	YES	NO		NO	NO	YES	YES	YES
	Bondability		°C	YES	YES	YES		YES	YES	YES		
	Working temperature range			0+60	0+60	-5+60		-10+50	-40+50	-50+50		