Technical Data Sheet PVC
Yazd polymer

Technical Properties			PVC								
Mechanical	Norma Test Method DIN	U.M. unit	Rigid				Semi rig	Flex			
			sheets		rods	tubes	sheets	ivory	Crystal	polar	super
			colored	Transp.				sheets	Sh./str.	strip	Sh./str
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	-	-	-	-	-
Notched impact strength at 23 °C	53453	Kj/m^2	5.5	4	4	-	-	-	-	-	-
Shore hardness	53505	Shore D	81	81	80	-	50	-	-	-	-
		Shore A	-	-	-	-	-	72	76	64	64

Thermal

VICAT softening point	53460	°C	80	78	75	-	-	-	-	-	-
Coefficient of linear thermos expanse.	53752	$k^{-1}\times10^{-4}$	0.8	0.8	0.8	0.8	-	-	-	-	-
Thermal conductivity	52612	w/mk	0.2	0.15	0.14	0.15	-	-	-	-	-
Crystalline grain melting point	-	°C	-	-	-	-	-	-	-	-	-
Cold brittle temperature	-	°C	-	-	-	-	-	-	-30	-45	-45

Electrical

Dielectric strength	53481	Kv/mm	35	20	32	-	-	-	-	-	-
Surface receptivity	53482	Ohm	10^{13}	10^{14}	10^{13}	10^{13}	-	-	-	-	-
Dielectric constant at 1 MHz	53483	-	3	3	3	-	-	-	-	-	-

General

Fire behaviors	UL 94	-	V0	V0	V0	-	-	-	-	-	-
	4102	-	B1	B1	B1	B1	-	-	-	-	-
Water absorption	53495	%	0.2	0.2	0.2	-	-	-	-	-	-
Non-toxicity	-	-	no	Si/yes	no	-	no	no	Si/yes	Si/yes	Si/yes
Bond ability	-	-	Si/yes	Si/yes	Si/yes	-	Si/yes	Si/yes	Si/yes		
Working temperature range	-	°C	0+60	0+60	-5+60	-	-10+50		-10+50	-40+50	-50+50