

PHYSICAL PROPERTIES OF THERMOPLASTIC PIPING MATERIALS

	ASTM TEST METHODS	PROPERTIES	MATERIAL			
			PVC	CPVC	PVDF	PP
GENERAL	D-792	Specific Gravity	1.38	1.55	1.76	0.905
	D-570	Water Absorption % 24 Hrs. @ 73°F	0.05	0.05	0.04	0.02
MECHANICAL	D-638	Tensile Strength psi @ 73°F	7,940	8,400	6,000	5,000
	D-638	Modulus of Elasticity in Tension PSI @ 73°F x 10 ⁻³	4.2	4.2	2.1	1.7
	D-790	Flexural Strength PSI	14,500	15,600	9,700	7,000
	D-256	Izod Impact Strength @ 73°F (Notched)	0.65	3.0	3.8	1.3
THERMAL	D-696	Coefficient of Thermal Expansion in/in/°F x 10 ⁻⁵	3.0	3.8	7.9	5.0
	C-177	Thermal Conductivity BTU/HR/Sq. Ft./°F/in	1.2	0.95	0.79	1.2
	D-648	Heat Distortion Temp. °F @ 66 PSI	N/A	238	284	220
	D-648	Heat Distortion Temp. °F @ 264 PSI	160	221	194	140
		Resistance to Heat °F at Continuous Drainage	140	210	280	180
FLAMMABILITY	D-2863	Limiting Oxygen Index (%)	43	60	44	17
	E-84	Flame Spread	15-20	15	0	N/A
		Underwriters Lab Rating (Sub. 94)	94V-O	94V-O	94V-O	94HB

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