

Material Technical Characteristics	Unit of Measure	Standard	PVC Duct Value
CHEMICAL-PHYSICAL PROPERTIES			
Specific gravity	g/cm ³	ASTM D792	1.55
H ₂ O 73,4° F absorbtion	%	ISO 62	<0,1
Formaldehede	ppm	-	absent
Cadmium	ppm	-	absent
MECHANICAL PROPERTIES			
Tensile stress at break	MPa	ASTM D638	39
Traction strength	MPa	ASTM D638	44
Elongation at break	%	ASTM D638	130
Modulus of elasticity at traction	MPa	ASTM D638	4400
Modulus of elasticity at flexion	MPa	ASTM D790	3200
THERMAL PROPERTIES			
Temperature VICAT	°C	ASTM D1525	84
HDT	°C	ASTM D648	72
Coefficient of expansion	K ⁻¹	ASTM D696	6
			10 ⁻⁵
Specific heat	kJ/kgK	ASTM C351	0,94
Thermal conductivity	W/mK	ASTM C177	0,14
ELECTRICAL PROPERTIES			
Dielectric constant	-	ASTM D150	3,2 - 4,0
Dielectric strength	kV/mm	IEC 243	70
Surface resistance	Ohm	IEC 93	10 ¹³
SELF-EXTINGUISHING			
Self-extinguishing 1,6 millimeters	-	UL 94	V0
Self-extinguishing 3,2 millimeters	-	UL 94	V0
Glow wire test (2 mm)	°C	IEC 695-2-1	960
Oxygen number	%	ASTM D2863	43

PVC Moulded Components Value	Polyamide 6 Value	Polyethylene Value	Flame Retardant Polyethylene Value
1.32	1.14	0.92	0.97
2,5	2,5	<0,1	<0,1
absent	absent	absent	absent
absent	absent	absent	absent
30	45	17	15
27	55	9,5	9
97	250	400	600
-	950	-	240
-	1100	210	130
70	198	89	-
60	185	-	-
8 10 ⁻⁵	10-Aug	22	10 ⁻⁵
	10 ⁻⁵	10 ⁻⁵	
1,24	1,7	-	-
0,14	0,29	0,32	0,32
3,2	5,0	2,4	2,3
60	35	90	90
10 ¹³	5 10 ¹¹	10 ¹³	10 ¹³
V0	V2	HB	V2
V0	V2	HB	V2
960	650	650	850
34	25	-	25