

Material Technical Characteristics	Unit of Measure	Standard	PVC Duct Value	PVC Moulded Components Value	Polyamide 6 Value	Polyethylene Value	Flame Retardant Polyethylene Value
<b>CHEMICAL-PHYSICAL PROPERTIES</b>							
Specific gravity	g/cm <sup>3</sup>	ASTM D792	1.55	1.32	1.14	0.92	0.97
H2O 73,4° F absorbtion	%	ISO 62	<0,1	2,5	2,5	<0,1	<0,1
Formaldehyde	ppm	-	absent	absent	absent	absent	absent
Cadmium	ppm	-	absent	absent	absent	absent	absent
<b>MECHANICAL PROPERTIES</b>							
Tensile stress at break	MPa	ASTM D638	39	30	45	17	15
Traction strength	MPa	ASTM D638	44	27	55	9,5	9
Elongation at break	%	ASTM D638	130	97	250	400	600
Modulus of elasticity at traction	MPa	ASTM D638	4400	-	950	-	240
Modulus of elasticity at flexion	MPa	ASTM D790	3200	-	1100	210	130
<b>THERMAL PROPERTIES</b>							
Temperature VICAT	°C	ASTM D1525	84	70	198	89	-
HDT	°C	ASTM D648	72	60	185	-	-
Coefficient of expansion	K <sup>-1</sup>	ASTM D696	6	8 10 <sup>-5</sup>	10-Aug	22	10 <sup>-5</sup>
			10 <sup>-5</sup>		10 <sup>-5</sup>	10 <sup>-5</sup>	
Specific heat	kJ/kgK	ASTM C351	0,94	1,24	1,7	-	-
Thermal conductivity	W/mK	ASTM C177	0,14	0,14	0,29	0,32	0,32
<b>ELECTRICAL PROPERTIES</b>							
Dielectric constant	-	ASTM D150	3,2 - 4,0	3,2	5,0	2,4	2,3
Dielectric strength	kV/mm	IEC 243	70	60	35	90	90
Surface resistance	Ohm	IEC 93	10 <sup>13</sup>	10 <sup>13</sup>	5 10 <sup>11</sup>	10 <sup>13</sup>	10 <sup>13</sup>
<b>SELF-EXTINGUISING</b>							
Self-extinguising 1,6 millimeters	-	UL 94	V0	V0	V2	HB	V2
Self-extinguishing 3,2 millimeters	-	UL 94	V0	V0	V2	HB	V2
Glow wire test (2 mm)	°C	IEC 695-2-1	960	960	650	650	850
Oxygen number	%	ASTM D2863	43	34	25	-	25