

# لیست آزمون‌های آزمایشگاه آزمون دانا پلاستیک

Dana Plastic  
Laboratory  
tests

آدرس: تهران، شهر قدس، بلوار ۴۵ متری انقلاب، خیابان صنعت سوم، پلاک ۴۳ کدپستی: ۳۱۱۴۸۱۴۷۳۸

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1	Tensile: yield, break, modulus (Standard specimens, pipe, hose ,film, sheet, containers, bottles ,granules, parts made from plastic, rubber and composites)	D638, ISO 527, D882, D412, ISO 4606, D6638, ISO 6259
2	Flexural: strength, modulus(specimens, pipe, hose, film, sheet, containers, bottles ,granules, parts made from plastic ,rubber and composites)	ISO 178, D790
3	Pendulum impact: Charpy, notched, Izod, tensile impact(specimens, pipe, hose ,film, sheet, containers, bottles ,granules, parts made from plastic ,rubber and composites)	ISO 179, ISO 180, D256, ISO 8256, ASTM D1822
4	DSC (Polymer characterization)	ISO 11357:1-7, D3417, D3418, D3895, D4591, D4419, D6604
5	Oxidation induction time (polymers)	ISO 11357-6
6	Melt flow index, mass, volume (thermoplastics)	ASTM D1238, ISO 1133-1
7	Vicat softening temperature(plastics)	ISO 306, D1525
8	Compression test(compressive properties)	D695, ISO604
9	chemical resistance (plastics)	D543, ISO 175
10	gel content(pipes/containers: ethylene plastics)	D2765, ISO 10147
11	moisture content(plastics)	ASTM D570, ISO 62
12	carbon black content(olefin plastics (pipes, sheets, fittings))	ASTM D1603, ISO 6964, ASTM D4218 ,ISO 7111
13	ESCR(ethylene plastics)	ASTM D1693
14	ash/filler content(plastics, rubbers)	ASTM D5630, D2584, ISO 3451
15	Density(all solid polymers)	ASTM D792, ISO 1183, ASTM D1248, ASTM D792
16	HDT (plastics)	ISO 75-1, 2; ASTM D648
17	burning rate, time, extent(plastics)	D635, ISO 9772
18	burning rate, time, extent(plastics)	D635, ISO 9772
19	Hardness shore A and D ( rubber, plastics)	D2240
20	compression set(rubber)	ISO 815-1, 815-2
21	properties after ageing (all polymers)	ISO 188, 6914, 1419
22	falling weight impact(plastic pipes, profiles, parts)	EN 744, EN 1411

23	hydrostatic pressure test(pipe, hose, membrane, geotextile)	ISO 1167-1:4, 9080, D1598, D1599
24	Thickness	ISO 3126, D5199, ISO 4593
25	diameter (inside/outside)	
26	Fatigue test(valves)	ISO 8659
27	Cure rheometry (Rubber compounds)	ISO 3417
28	Abrasion resistance(Rubber products)	ISO 4649
29	Hydrostatic pulse pressure test (Valves, hoses, pipes, tanks, joints)	
30	PH measurement(Solutions, electrolytes)	
31	UV meter (Lamps, sun, ...)	
32	adhesion between layers(reinforced layered products)	ISO 8033
33	sealing/leaktightness (hose, fittings, valves)	ISO 1054, 3458, 3459
34	leaktightness subjected to bending(Fittings)	ISO 3503
35	Resistance to pull-out under constant longitudinal force(mechanical fittings for pipes)	ISO 3501, EN 712
36	Crushing de cohesion test(electrofusion and but fused joints)	ISO 13953, 13955
37	pigment/carbon black dispersion(colored or black parts)	ISO 18553

38	carbon black content(olefin plastics)	ISO 6964
39	Resistivity/Conductivity(Insulating/semiconducting materials)	D257, ISO 3915
40	Mesh size of powders(Polymer/filler powders)	
41	Torque(Valves, bottles, screw caps)	ISO 88233
42	UV weathering	ISO 4892-3, G154
43	Xenon weathering	ISO 4892-2, G155
44	Puncture resistance(Geomembranes, geotextiles)	D4833, D6241
45	FNCT	ISO 16770
46	NCTL	D5397

47	Permeability (OTR)	ISO 15105-1
48	Permeability (WTR)	ISO 2528
49	brittleness temperature	ASTM D1790
50	TR 10	ASTM D1329
51	Flammability	UL 94
52	Electrical conductivity	
53	Dielectric strength	IEC 60243-1
54	Cure time(powder/liquid)	ISO 21809-2 A.2
55	Gel time(powder/liquid)	ISO 8130-6, ISO 21809 A.3
56	Thermal behavior (Tg1,Tg2, ΔH)( powder/liquid)	ISO 21809 A.8
57	Resin density(powder/liquid)	ISO 8130-3, D1475, ISO 2811-1
58	Particle size(powder)	ISO 8130-1
59	Total moisture/volatile content(powder)	ISO 21809-2 A.5
60	Loss of mass by heating(powder/liquid)	ISO 8130-7
61	storage stability(powder)	ISO 8130-8
62	solid content(liquid)	D2697, ISO 16482-1, D1259
63	Ash(powder/liquid)	ISO 3451, ASTM D5630
64	Appearance and continuity(coating)	ISO 21809-2, EN 10289
65	Electrical insulation resistance(coating)	ISO 21809-2, EN 10289, ASTM D270
66	Indentation resistance(coating)	EN 10289 A.H
67	Thermal ageing(coating)	EN 10289 A.J
68	Hardness Shore D(coating)	ISO 868, EN 10289 A.F
69	Thickness(coating)	
70	Drop impact	ISO 21809 A.14, EN 10289 A.C, ASTM G14
71	Holiday detection	ISO 21809-2, EN 10289 A.B, D5162

72	Cathodic disbondment(coating)	ISO 21809-2
73	Hot water immersion(coating)	24h, 28d, adhesion
74	Dry adhesion(coating)	ISO 21809 A.4, D6677
75	Pull-off adhesion (coating)	up to 50MPa/20mm dolly
76	Flexibility(coating)	ISO 21809 A.13
77	Interface contamination(coating)	ISO 21809 A.11
78	Interface porosity(coating)	ISO 21809-2 A.12, EN 10289
79	Cross section porosity(coating)	ISO 21809-2, EN 10289
80	Absorption coeficient	ASTM D3349

81	Pressure drop(Valves and fittings)	ISO 9644
82	Peel strength to pipe surface and to factory coating	ISO 1206812
83	Soil stress creep resistanance	TP 206
84	Ultraviolet irradiation resistance ratio of elongation at break	EN 12068
85	Resistance to lubricants	ISO 1817
86	Resistance to gas	ISO 1817
87	Determination of ring stiffness	ISIEI 11436,ISO 9969
88	Tear resistance	ASTM D1004
89	Resistance to liquids(Geosynthetics)	ASTM D 5322, ASTM D 5747
90	Ring test	ASTM F 1281, ASTM F 1282
91	Resistance to rotational and axial sliding	ISO 13460
92	Ring flexibility	BS EN ISO 13968
93	Uniformity of flow rate(Emitters and emitting pipes for Irrigation Equipment)	ISO 9261
94	Flow rate as a function of inlet pressure(Emitters and emitting pipes for Irrigation Equipment)	ISO 9261
95	Emitter/emitting unit exponent(Emitters and emitting pipes for Irrigation Equipment)	ISO 9261

96	Resistance to hydraulic pressure(Emitters and emitting pipes for Irrigation Equipment)	ISO 9261
97	Resistance to pull-out of joints between fittings and polyethylene reusable emitting pipes	ISO 9261
98	Resistance to tension of emitting pipes(Emitters and emitting pipes for Irrigation Equipment)	ISO 9261
99	Emitter pull-out from pipe(Emitters and emitting pipes for Irrigation Equipment)	ISO 9261
100	Environmental stress cracking resistance(Irrigation Pipes)	ISO 8796
101	Environmental stress cracking resistance(Ethylene plastics)	ASTM D1693
102	Resistance to dichloromethane at a specified temperature	ISIRI 10609,EN 580
103	Air tightness	ISIRI 11440,EN 1054
104	Absorption coefficient	ASTM D3349
105	Shrink Back	ASTM 4565, EN 60811
106	Water absorption	ASTM D570,EN ISO 62
107	Weight of zinc coating	ASTM A475
108	Thermal stability	CI-A-112 And EN 124
109	Pressure burst strength	A-107
110	Shear strength	ISO 4587
111	Wire pulling	F-TER-104 and DIN 47608-2
112	Torsion	
113	Kink	IEC 60794-1
114	Static Load	CL-OP-105, CL-H-101, CN-OP-110 and IEC 874-1
115	Vibration	CL-OP-105, CL-H-101
116	Kink	OC-111 and IEC 60794-1-2E10

117	Twist	OC-111 and EIA/TIA 455-85
118	Cable Pulling	CN-OP-110 and IEC 874-1

119	Deflection Under Load	CI-A-112 And EN 124-5
120	Load Bearing Capacity	CI-A-112 And EN 124-1
121	Resistance to Fatigue	CI-A-112 And EN 124-5
122	Fire Propagation	OC-110 and IEC60332-1, UL 1685
123	Surface Resistivity	CI-A-112 And ISO 2878
124	Impact	A-107 and IEC60794-1-2 OC-111 and EIA/TIA 25-C CI-A-112 And EN 124
125	Compression	A-107 and ASTM D1224 A-101 and ISO 9969 OC-111 and EIA/TIA 455-41-A
126	Volume Resistivity	ASTM 1169
127	Bending	EN 60811 (at Low Temperature) A-107 and IEC60794-1-2 OC-111 and EIA/TIA 455-37
128	Rating Adhesion	ASTM D3359
129	Axial Tension	CL-OP-105 CL-H-101
130	Flexure	CL-OP-105 CL-H-101 OC-111 and EIA/TIA 455-104-A
131	Impact	CL-OP-105 CL-H-101
132	Torsion	CL-OP-105 CL-H-101
133	Kink	OC-111 and IEC 60794-1-2E10
134	Permanent Set	CI-A-112 And EN 124-1
135	Creep Resistance	CI-A-112 And EN 124
136	Fungus Resistance	ISO 846 Method A ASTM D 876 ISO 840
137	Corrosion	ASTM D2671 IEC 352-4
138	Immersion in Chemical Solution	CL-OP-105 A-101 and ASTM D543 A-108 and ASTM D543
139	Resistance to Vehicle Fuels	CI-A-112 And EN 124
140	Insulation Resistance	F-TER-104 and IEC 60512-2

141	Dielectric Breakdown	F-TER-104 and IEC 60512-2 CC-105
142	Water Penetration	OC-111 and FOTP-82
143	Water Head	CL-OP-105
144	Environmental Temperature Cycling	CL-OP-105 CL-H-101
145	Degrees of protection	