

DIELECTRIC CONSTANTS OF SOME MATERIALS

Material	ϵ_r
Acetone	19.5 ... 21.4
Acetylenetetrachloride	8.1
Aminoplasts	5.0 ... 8.0
Ammonia	15.0 ... 24.0
Aniline	6.9
Ash	1.5 ... 1.7
Benzaldehyde	18.3
Benzene	2.28 ... 2.30
Benzol	2.3
Celluloide	3.5 ... 6.2
Cement	4.0
Dioxane	2.235
Ebonit	2.5 ... 5.0
Ethanol	24
Ethylacetate	6.0
Ethyleneglycol	38.7
Ethylenechloride	10.5
Flint crystal	4.5
Flour	2.5 ... 3.0
Food salt (NaCl)	6.0
Freon R22	6.1
Fused quartz	3.7
Gasoline (benzine)	2.0 ... 2.2
Glass	3.7 ... 10.0
Glass organic	3.0 ... 3.6
Glass silicate	16
Glazed carton	3.5
Glycerine	47
Grains	3.0 ... 5.0
Hardened textile	2.0 ... 6.0
Hexane	1.9
Chloroforme	4.81
Ice	3.1
Liquefied air	1.5
Liquefied CO ₂	1.6
Liquefied chlore	2.0
Liquefied propan	1.6 ... 1.9
Marble	9.3 ... 11.6
Methanol	32.7 ... 33.8
Mica	5.0 ... 8.0
Mikanite	4.5 ... 6.0
Milk powder	3.5 ... 4.0
Monochlorbenzene	4.0
Nitrobenzene	35.7
Ortonitrotoluene	27.4

Material	ϵ_r
Paper	1.6 ... 2.6
Paraffin	1.9 ... 2.5
Paraffin oil	1.9 ... 2.5
Paraffinic oil	2.2
Petroleum	2.0 ... 2.2
Polyacetal	3.6 ... 3.7
Polyamide – PA	4.0 ... 5.0
Polydichlorstyrole	2.7
Polyetheretherketone – PEEK	3.2
Polyetherimide – PEI	3.0
Polyethylene – PE	2.16
Polyfenylenesulfide – PPS	3.3
Polymethylmetakrylate	2.56
Polypropylene – PP	2.0 ... 2.2
Polystyrole	2.39
Polysulphone – PSU	3.0
Polytetrafluorethylene – PTFE	2.0 ... 2.1
Polyvinylacetate	2.7
Polyvinylchloride – PVC	2.51 ... 3.10
Polyvinylidene fluoride – PVDF	6.0 ... 7.4
Porcelain	4.5 ... 7.0
Pyridine	13.6
Rape seed (colza) oil	2.8
Resin – acrylic	2.4 ... 4.5
Resin – epoxy	2.5 ... 8.0
Resin – melamine	4.7 ... 10.2
Resin – phenolic	4.0 ... 12.0
Resin – polyester	2.8 ... 8.1
Resin – styrene	2.3 ... 3.4
Resin – ureal	5.0 ... 8.0
Rubber	2.0 ... 6.0
Sand	3.0 ... 5.0
Silicon caoutchouc	2.8 ... 3.3
Succinite	2.9
Sugar	3.0
Sulphur	3.4 ... 3.6
Toluene	2.30 ... 2.38
Trichlorethylene	3.43
Trolitule	2.0 ... 2.6
Vaseline	2.2 ... 2.9
Water	81
Water solution	50 ... 80
White beeswax	2.0 ... 2.9
Wood – damp	10 ... 30
Wood – dry	2.0 ... 6.0