

Physical Properties for Selected Thermoset Resins

polymer	Tg ©	Ref.index (film)	Density	Tensile strength (1000 psi)	Flexural strength (1000 psi)	Compressive strength (1000 psi)	Elongtaion at break (%)	Shrinkage (%)	water absorption (24 hrs.)
casein	35	1.33 (sol'n); 1.4-1.5 (film)	1.35						
chlorinated rubber		1.55-1.60	1.24						
epoxy resin	90-180	1.56	1.1-1.4	4-13	13-21	15-21.5	2.6	0.1-0.4	0.01-0.10
melamine formaldehyde		1.65	1.40-1.48	7-9	11-14	40-45		1.0-1.5	0.01-1.3
phenol formaldehyde		1.70	1.30-1.86	6-9	11-17	12-15	1.5-2.0	1.0-1.2	0.1-2.0
polyimide	150-200		1.42-1.90	5-27	7.1-49.5	4.7-40	<10	0.1-0.3	0.3-0.4
polyisoprene	-70 to -74	1.53	0.92						
polyxylylene	60-100	1.669							
siloxane	-125	1.41	1.30-1.34	4-8	9-19	9-15		1-1.5	
polyester	70	1.55	1.12-1.46	6-12	8.5-18.5	13-36.5	20	2-8	