

SMC MATERIALS OVERVIEW CHART

787 Renaissance Parkway | Painesville, OH 44077



PROPERTIES		AS8115(F1)	AS8120(F1)	AS8125(F1)	AS8130(F1)	AS8134	AS8240	AS8250	AS8560	AS8660	AS8763	AS10000-45
Chemistry		Polyester	Polyester	Polyester	Polyester	Polyester	Hybrid	Hybrid	Vinyl Ester	Epoxy	Phenolic	Hybrid
Listed File E80533	-	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No
Flammability UL94	-	V0/5VA	V0	V0	V0	V0	V0	V0				
MECHANICAL PROPERTIES												
Flexural Strength, Kpsi	D790	17-23	33-39	34-39	33-36	38-44	40-45	52-58	50-55	64-71	54-60	58-66
Flexural Modulus, Mpsi	D790	1.1-1.4	1.4-1.7	1.2-1.6	2.0-2.2	2.3-2.5	3.7-3.9	1.8-2.0	2.3-2.6	2.5-3.0	3.0-3.5	2.9-3.3
Tensile Strength, Kpsi	D638	8.5-13	12-18	17-23	18-22	19-26	24-28	24-28	25-31	36-39	28-32	16-24
Impact Strength, Notched Izod, Ft Lbs/in	D256	6-8	8-12	10-13	14-16	22-24	25-28	37-41	35-40	37-42	26-32	25-35
ELECTRICAL PROPERTIES												
Arc Resistance, Seconds	D495	185+	185+	185+	185+	185+	185+	185+	185+	185+	160+	180+
Dielectric Strength VPM	D149	330-380	350-390	360-400	360-380	340	350+	360+	350+	400+	175+	400+
PHYSICAL PROPERTIES												
Specific Gravity	D792	1.65-1.75	1.65-1.75	1.65-1.75	1.70-1.80	1.75-1.85	1.75-1.85	1.75-1.85	1.75-1.85	1.70-1.80	1.75-1.85	1.85-1.95
Mold Shrinkage 0.001/in	D955	1.5-3	1.5-3	1.5-3	1.5-3	1.5-3	1.5-3	0.5-2.0	1-3	0.5-1.5	1-2.5	0.5-2.0
Barcol Hardness	D2583	35-50	40-60	40-60	40-60	40-60	40-60	40-60	40-60	40-60	40-60	30-40
Heat Distortion Temp @ 264 psi Deg F	D648	>500	>500	>500	>500	>500	>500	>500	>500	>500	>500	>500
Water Absorption % in 24 hrs	D570	<0.30	<0.30	<0.30	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20	<0.30	<0.30
Relative Thermal Index	UL746B	266/266/266	266/266/266	266/266/266	266/266/266	-	-	-	-	-	-	-

All property values are based on test performed on standard ASTM test samples and according to standard ASTM test methods unless otherwise indicated. This information is offered solely for your consideration and is to be used as a guide only. No other warranty is implied.

Contact Us:

CORPORATE HEADQUARTERS

10095 Queens Way Chagrin Falls, Ohio 44023-5495
 (440) 543-7526 Fax: (440) 543-4691
www.Altraset.com

Revised: 07/31/25