

GENERAL PROPERTIES OF FLOMAT SHEET MOULDING COMPOUND

PROPERTY	TEST METHOD	UNITS	512/20	513/15	514/15	515/15	516/25
PHYSICAL	-	-	-	-	-	-	-
DENSITY	BS-2782-PART 5-509A-1970	gm/cc	1.70 - 1.90	1.70 - 1.90	1.70 - 1.90	1.70- 1.90	1.70- 1.90
MOULD SHRINKAGE	BS-2782-PART 6-640A-1979	%	0.15 - 0.20	0.25 - 0.30	0.15 - 0.25	0.15 - 0.20	0.15 - 0.20
REINFORCEMENT CONTENT	BS-5734-PART 1-1990	%	19 - 21	14 - 16	14 - 16	14 - 16	24 - 26
*WATER ABSORPTION	BS-2782-PART 4-430A-1983	%	<0.20	<0.20	<0.20	<0.20	<0.20
MECHANICAL	-	-	-	-	-	-	-
TENSILE STRENGTH	BS-2782-PART 3-320E-1976	Kg/sq.cm	550	300	325	350	750
FLEXURAL STRENGTH	BS-2782-PART 3-335A-1993	Kg/sq.cm	1200	1200	1200	1350	1600
COMPRESSIVE STRENGTH	BS-2782-PART 3-345A-1993	Kg/sq.cm	1900	1345	1800	2000	1800
IMPACT STRENGTH	BS-2782-PART 3-350-1993	Kg.cm/cm	50	25	35	35	50
ELECTRICAL	-	-	-	-	-	-	-
VOLUME RESISTIVITY	DIN-53482-1967	Log ₁₀ Ohm cm	13	-	13	13	14
SURFACE RESISTIVITY	DIN-53482-1967	Log ₁₀ Ohm	11	-	12	12	12
TRACKING INDEX	DIN-53480-1972	Volts	+800	-	+800	+800	+800
DIIELECTRIC STRENGTH	BS-2782-PART 2-201C-1970	KV/mm	10	-	12	12	12
ARC RESISTANCE	ASTM-D 495-1989	Seconds	+180	-	+180	+180	+180
THERMAL	-	-	-	-	-	-	-
*MARTEN HDT TEST	DIN - 53462-1987	Deg C	+120	-	+130	+130	+145
Flammability	UL- 94-1996	-	V0	-	V0	V0	V0
RECOMMENDATION	-	-	-	-	-	-	-
MOULDABLE THICKNESS	-	mm	3.00 - 20.0	3.00 - 20.0	3.00 - 20.0	3.00 - 20.0	3.00 - 20.0
MOULD TEMPERATURE	-	Deg C	130 - 160	140 - 170	140 - 170	140 - 170	140 - 170
MOULDING PRESSURE	-	Kg/cm ²	30 - 100	30 - 100	30 - 100	30 - 100	30 - 100
CURING TIME	seconds/mm THICKNESS	Seconds	30 - 50	30 - 50	30 - 50	30 - 50	30 - 50
TYPE OF MOULDING	-	-	Compression	Compression	Compression	Compression	Compression

GENERAL PROPERTIES OF FLOMAT SHEET MOULDING COMPOUND

PROPERTY	TEST METHOD	UNITS	516/30	523/30	523/35	536/30	536/35
PHYSICAL	-	-	-	-	-	-	-
DENSITY	BS-2782-PART 5-509A-1970	gm/cc	1.70 - 1.90	1.70 - 1.90	1.70 - 1.90	1.70- 1.90	1.70- 1.90
MOULD SHRINKAGE	BS-2782-PART 6-640A-1979	%	0.10 - 0.20	0.02 - 0.10	0.02 - 0.15	0.10 - 0.20	0.10 - 0.20
REINFORCEMENT CONTENT	BS-5734-PART 1-1990	%	29 - 31	29 - 31	34 - 36	29 - 31	34 - 36
*WATER ABSORPTION	BS-2782-PART 4-430A-1983	%	<0.20	<0.20	<0.20	<0.20	<0.25
MECHANICAL	-	-	-	-	-	-	-
TENSILE STRENGTH	BS-2782-PART 3-320E-1976	Kg/sq.cm	900	900	1100	1000	1200
FLEXURAL STRENGTH	BS-2782-PART 3-335A-1993	Kg/sq.cm	1700	1750	2000	2000	2350
COMPRESSIVE STRENGTH	BS-2782-PART 3-345A-1993	Kg/sq.cm	2000	2000	2600	2300	2500
IMPACT STRENGTH	BS-2782-PART 3-350-1993	Kg.cm/cm	55	60	80	85	100
ELECTRICAL	-	-	-	-	-	-	-
VOLUME RESISTIVITY	DIN-53482-1967	Log ₁₀ Ohm cm	14	-	-	13	14
SURFACE RESISTIVITY	DIN-53482-1967	Log ₁₀ Ohm	12	-	-	11	12
TRACKING INDEX	DIN-53480-1972	Volts	+800	-	-	+800	+800
DIELECTRIC STRENGTH	BS-2782-PART 2-201C-1970	KV/mm	12	-	-	9	11
ARC RESISTANCE	ASTM-D 495-1989	Seconds	+180	-	-	+180	+180
THERMAL	-	-	-	-	-	-	-
*MARTEN HDT TEST	DIN - 53462-1987	Deg C	+180	-	-	+130	+145
Flammability	UL- 94-1996	-	V0	-	-	V0	V0
RECOMMENDATION	-	-	-	-	-	-	-
MOULDABLE THICKNESS	-	mm	3.00 - 20.0	3.00 - 20.0	3.00 - 20.0	3.00 - 20.0	3.00 - 20.0
MOULD TEMPERATURE	-	Deg C	140 - 170	130 - 165	130 - 165	130 - 160	130 - 160
MOULDING PRESSURE	-	Kg/cm ²	30 - 100	30 - 100	30 - 100	30 - 100	30 - 100
CURING TIME	seconds/mm THICKNESS	Seconds	30 - 50	30 - 50	30 - 50	30 - 50	30 - 50
TYPE OF MOULDING	-	-	Compression	Compression	Compression	Compression	Compression

GENERAL PROPERTIES OF FLOMAT SHEET MOULDING COMPOUND

PROPERTY	TEST METHOD	UNITS	537/40	550/20	550/25	550/35	581/30
PHYSICAL	-	-	-	-	-	-	-
DENSITY	BS-2782-PART 5-509A-1970	gm/cc	1.75 - 1.90	1.70 - 1.90	1.70 - 1.90	1.70 - 1.90	1.70 - 1.90
MOULD SHRINKAGE	BS-2782-PART 6-640A-1979	%	0.10 - 0.20	0.10 - 0.20	0.15 - 0.20	0.15 - 0.20	0.05 - 0.12
REINFORCEMENT CONTENTS	BS-5734-PART 1-1990	%	38 - 41	19 - 21	24 - 26	34 - 36	29 - 31
*WATER ABSORPTION	BS-2782-PART 4-430A-1983	%	<0.25	<0.25	<0.20	<0.25	<0.15
MECHANICAL	-	-	-	-	-	-	-
TENSILE STRENGTH	BS-2782-PART 3-320E-1976	Kg/sq.cm	1000	500	700	900	850
FLEXURAL STRENGTH	BS-2782-PART 3-335A-1993	Kg/sq.cm	1700	1400	1600	1900	1500
COMPRESSIVE STRENGTH	BS-2782-PART 3-345A-1993	Kg/sq.cm	2500	1700	1900	2100	1900
IMPACT STRENGTH	BS-2782-PART 3-350-1993	Kg.cm/cm	90	50	55	75	50
ELECTRICAL	-	-	-	-	-	-	-
VOLUME RESISTIVITY	DIN-53482-1967	Log ₁₀ Ohm cm	13	14	14	14	12
SURFACE RESISTIVITY	DIN-53482-1967	Log ₁₀ Ohm	12	12	12	12	13
TRACKING INDEX	DIN-53480-1972	Volts	+800	+800	+800	+800	+600
DIELECTRIC STRENGTH	BS-2782-PART 2-201C-1970	KV/mm	10	11	11	11	9
ARC RESISTANCE	ASTM-D 495-1989	Seconds	+180	+180	+180	+180	+185
THERMAL	-	-	-	-	-	-	-
*MARTEN HDT TEST	DIN - 53462-1987	Deg C	+145	+130	+140	+150	+145
Flammability	UL- 94-1996	-	V0	V0	V0	V0	V0
RECOMMENDATION	-	-	-	-	-	-	-
MOULDABLE THICKNESS	-	mm	3.00 - 20.0	3.00 - 20.0	3.00 - 20.0	3.00 - 20.0	3.00 - 20.0
MOULD TEMPERATURE	-	Deg C	130 - 160	140 - 170	140 - 165	140 - 170	140 - 170
MOULDING PRESSURE	-	Kg/cm ²	30 - 100	30 - 100	30 - 100	30 - 100	30 - 100
CURING TIME	seconds/mm THICKNESS	Seconds	30 - 50	30 - 50	30 - 50	30 - 50	30 - 50
TYPE OF MOULDING	-	-	Compression	Compression	Compression	Compression	Compression

GENERAL PROPERTIES OF FLOMAT SHEET MOULDING COMPOUND

PROPERTY	TEST METHOD	UNITS	595/25	700/25	700/30	880/30	515/20
PHYSICAL	-	-	Antistatic	-	-	-	-
DENSITY	BS-2782-PART 5-509A-1970	gm/cc	1.60 - 1.80	1.70 - 1.90	1.65 - 1.75	1.65 - 1.70	1.70 - 1.90
MOULD SHRINKAGE	BS-2782-PART 6-640A-1979	%	0.15 - 0.30	0.15 - 0.20	0.10 - 0.15	0.15 max.	0.15 - 0.20
REINFORCEMENT CONTENT	BS-5734-PART 1-1990	%	24 - 26	24 - 26	29 - 31	29 - 31	19 - 21
*WATER ABSORPTION	BS-2782-PART 4-430A-1983	%	<0.30	<0.20	<0.20	<0.25	<0.20
MECHANICAL	-	-	-	-	-	-	-
TENSILE STRENGTH	BS-2782-PART 3-320E-1976	Kg/sq.cm	700	700	800	600	500
FLEXURAL STRENGTH	BS-2782-PART 3-335A-1993	Kg/sq.cm	1600	1750	1200	1500	1300
COMPRESSIVE STRENGTH	BS-2782-PART 3-345A-1993	Kg/sq.cm	2000	1950	1800	-	1500
IMPACT STRENGTH	BS-2782-PART 3-350-1993	Kg.cm/cm	60	60	50	70	60
ELECTRICAL	-	-	-	-	-	-	-
VOLUME RESISTIVITY	DIN-53482-1967	Log ₁₀ Ohm cm	-	14	13	-	13
SURFACE RESISTIVITY	DIN-53482-1967	Log ₁₀ Ohm	5-9	12	12	-	12
TRACKING INDEX	DIN-53480-1972	Volts	-	+800	+800	-	+800
DIELECTRIC STRENGTH	BS-2782-PART 2-201C-1970	KV/mm	-	10	10	16	10
ARC RESISTANCE	ASTM-D 495-1989	Seconds	+185	+180	+185	+185	+180
THERMAL	-	-	-	-	-	-	-
*MARTEN HDT TEST	DIN - 53462-1987	Deg C	+135	+200	+140	+140	+135
Flammability	UL- 94-1996	-	V0	V0	V0	V0	V0
RECOMMENDATION	-	-	-	-	-	-	-
MOULDABLE THICKNESS	-	mm	3.00 - 20.0	3.00 - 20.0	3.00 - 20.0	3.00 - 20.0	3.00 - 20.0
MOULD TEMPERATURE	-	Deg C	120 - 160	120 - 160	120 - 160	140 - 170	140 - 170
MOULDING PRESSURE	-	Kg/cm ²	30 - 100	30 - 100	30 - 100	30 - 100	30 - 100
CURING TIME	seconds/mm THICKNESS	Seconds	30 - 50	30 - 50	30 - 50	30 - 50	15 - 20
TYPE OF MOULDING	-	-	Compression	Compression	Compression	Compression	Compression

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PROPERTY	TEST METHOD	UNITS	519/25
PHYSICAL	-	-	-
DENSITY	BS-2782-PART 5-509A-1970	gm/cc	1.80 - 1.90
MOULD SHRINKAGE	BS-2782-PART 6-640A-1979	%	0.10 - 0.20
REINFORCEMENT CONTENTS	BS-5734-PART 1-1990	%	24 - 26
*WATER ABSORPTION	BS-2782-PART 4-430A-1983	%	<0.20
MECHANICAL	-	-	-
TENSILE STRENGTH	BS-2782-PART 3-320E-1976	Kg/sq.cm	846
FLEXURAL STRENGTH	BS-2782-PART 3-335A-1993	Kg/sq.cm	2302
COMPRESSIVE STRENGTH	BS-2782-PART 3-345A-1993	Kg/sq.cm	2447
IMPACT STRENGTH	BS-2782-PART 3-350-1993	Kg.cm/cm	108
ELECTRICAL	-	-	-
VOLUME RESISTIVITY	DIN-53482-1967	Log ₁₀ ohm cm	14
SURFACE RESISTIVITY	DIN-53482-1967	Log ₁₀ ohm	12
TRACKING INDEX	DIN-53480-1972	Volts	+800
DIELECTRIC STRENGTH	BS-2782-PART 2-201C-1970	KV/mm	12.3
ARC RESISTANCE	ASTM-D 495-1989	Seconds	190
THERMAL	-	-	-
*MARTEN HDT TEST	DIN - 53462-1987	Deg C	-
Flammability	UL- 94-1996	-	V0
RECOMMENDATION	-	-	-
MOULDABLE THICKNESS	-	mm	3.00 - 20.0
MOULD TEMPERATURE	-	Deg C	-
MOULDING PRESSURE	-	Kg/cm ²	-
CURING TIME	seconds/mm THICKNESS	Seconds	-
TYPE OF MOULDING	-	-	Compression

Note:

- The above-furnished grades are standard available grades. Special grades can be compounded to customer's specifications & special applications.
- Standard colors available are black, white & grey. If any other specific colour is required the same can be produced on requisition.
- * Regular test certificate will not contain this data, as this parameter is only the supporting data.