

PVC COLOURING COMPOUNDING & PROCESSING

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Product Specification for Insulation, Shething, Flame Retardant Shething Compound, Conforming to Is-5831-1984

Typical Properties / Test Methods	Unit	Type A	Type B	Type C	ST-1	ST-2	FR	FRLS
1. Specific Gravity ASTM D 792	-	1.35 ± 0.03	1.35 ± 0.03	1.35 ± 0.03	1.38 ± 0.03	1.45 ± 0.03	1.50 ± 0.03	1.60 ± 0.03
2. Shore 'A' Hardness,15 sec @ 23⁰ C ASTM D 2240	Nos.	87 ± 3	96 ± 3	95 ± 3	87 ± 3	95 ± 3	95 ± 3	96 ± 3
3. Without Ageing								
a. Tensile Strength ASTM D 638	Kg/cm ²	200	210	200	180	180	160	150
b. Elongation (min.)	%	220	230	210	200	180	200	210
4. After Ageing in Air oven								
a. Treatment Temp. (Tolerance + 2 ⁰ C)	⁰ C	80 ⁰ C	100 ⁰ C	135 ⁰ C	80 ⁰ C	100 ⁰ C	135 ⁰ C	135 ⁰ C
Dutation	Days	7	7	7	7	7	7	7
b. Tensile Strength Variation (max.)	%	0 ± 20	0 ± 25	0 ± 25	0 ± 20	0 ± 25	0 ± 20	0 ± 20
c. Elongation at break Variation (max.)	%	0 ± 20	0 ± 25	0 ± 35	0 ± 20	0 ± 25	0 ± 20	0 ± 20
5. Loss of mass (max.) At 80 ⁰ C / 7 days	mg/cm ²	2	2	2	2	2	2	2
6. Thermal Stability At 200 ⁰ C	minute	100 min.	140 min.	140 min.	75 min.	110 min.	100 min.	100 min.
7. Oxygen Index ASTM D 2843	%	-	-	-	-	-	30 min. (%)	30 min. (%)
8. Smoke Density ASTM D 2843	%	-	-	-	-	-	-	50
9. Volume Resistivity (min.) conditioning at 27 ⁰ C	ohm - cm	6 X 10 ¹³	6.8 X 10 ¹⁴	8.1 X 10 ¹³	2.8 X 10 ¹³	3 X 10 ¹⁴	2.3 X 10 ¹³	2.5 X 10 ¹³

Note: The information given herein is based on the present state of our knowledge but any conclusions and recommendations are made without liability on our part. Buyers and users should make their own assessment of our products under their own conditions and for their own requirements.