



Universal Polychem (India) Pvt. Ltd.

Mfrs of Hi-Tech Range of Pvc Compound & Master Batch

CIN : U25202DL2004PTC129029
QUALITY CONTROL SECTION
PVC INSPECTION REPORT

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Party name	Date
Item/Grade	Invoice No.
Type of Insul./ Sheath	Net Weight(Kg.)
Specification Reference IS: 5831-1984	Total No. of Bags 0

TEST RESULTS

Properties	Test Method	Unit	Specified Value	Test Value
Physical appearance	Visual	–	Granules	Granules
Color	Visual	–		Natural
Hardness	ASTM-D 2240	Shore-A	94±02	93
Specific Gravity	ASTM-D 792	gm/cm ³	1.55±0.02	1.561
Volume Resistivity @27°C	IS 3396/79	Ohm-cm	1×10 ¹³ (Min.)	5×10 ¹⁴
Insulation Resistivity	IS 10810-43	Ohm-cm	–	–
Tensile Strength	IS 10810-07	N/mm ²	12.50 (Min.)	15.00
Elongation at Break	IS 10810-07	%	150 (Min.)	225
Variation in Tensile Strength	IS 10810-11	%	±25 (Max.)	5
Variation in Elongation	IS 10810-11	%	±25 (Max.)	-7
Thermal Stability @ 200°C	IS 10810-60	Minute	80 (Min.)	150
Loss of Mass.	IS 10810-10	Mg/cm ²	2 (Max.)	0.894
Cold Bend Test	IS 10810-20	°c	Crack/No Crack	No crack
Cold Impact Test	IS 10810-21	°c	Crack/No Crack	No crack
Shrinkage Test	IS 10810-12	%	4 (Max.)	2.5
Oxygen Index Test	IS 10810-58	%	29 (Min.)	32
Critical Temp. Index	IS 10810-58	°c	250 (Min.)	300
Smoke Density	ASTM-D 2843	%	60 (Max.)	50
HCL Emission	IEC: 754-1	%	20 (Max.)	17.25
UV-Exposure for 720 hours.	ASTM G-154	Visual Examination	(1) No colour fading of the sample was observed. (2) Surface of the sample was free from cracks and blisters.	
Retention of Tensile Properties after UV-Exposure for 720 hours.	ASTM G-154	%	Retention of TS & Elongation shall not be less than 80 %	
Tensile strength				91
Elongation				89
Anti termite & Anti rodent	–	–	Yes	Yes
Water Absorption				
Carbon Black Content Test				
Tear Resistance				
Hot Set Test				
Permanent Set				
Melt Flow Index				
Izod impact Test				
Flexural Strength				
Flexural Modules				
E.S.C.R (10% Igepol)				
OIT				
ASH Content				
Thickness				
Width				
Length				
Intrinsic Viscosity				
ESD Value				
Erosion Test				
Color Fastness Test				

Prepared By(Q.c. Dept.)

Approved By(Q.c. Dept.)