

PVC COLOURING COMPOUNDING & PROCESSING

64, Phase-I, Opp.Citizen Industries, G.I.D.C Naroda, Ahmedabad-382330

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Product Specification for Shoe Sole Grade

Typical Properties / Test Methods	Unit	A/2	A/4
1. Shore 'A' Hardness,15 sec @ 23° C ASTM D 2240	Nos.	65	75
2. Specific Gravity ASTM D 792	-	1.20 ± 0.03	1.26 ± 0.03
3. Tensile Strength ASTM D 638	Kg/cm ²	75	82
4. Elongation (min.)	%	320	350

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.

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Product Specification for Door Trim Grade

Typical Properties / Test Methods	Unit	Value
1. Specific Gravity ASTM D 792	-	1.28 ± 0.03
2. Shore 'A' Hardness, 15 sec @ 23° C ASTM D 2240	Nos.	70 ± 3
3. Tensile Strength ASTM D 638	Kg/cm ²	125
4. Elongation (min.)	%	300
5. Volatile Loss (max.) At 130° C/33 hrs	%	0.75

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Product Specification for Hose Separation Outlet (Fuel Pipe)

Typical Properties	Unit	Test Value	Test Method
1. Without Ageing			
a. Tensile Strength at break	Kg/cm ²	100	ASTM D 638
b. Elongation at break	%	172	ASTM D 638
c. Hardness, 15 sec @ 23 °C	Nos.	80	ASTM D 2240
2. After Ageing @ 70° C, 48 hrs			
a. Tensile Strength at break	Kg/cm ²	105	ASTM D 638
b. Elongation at break	%	186	ASTM D 638
c. Hardness, 15 sec @ 23 °C	Nos.	82	ASTM D 2240
3. After immersion in Petrol @ 27° C, 24 hrs			
a. Tensile Strength at break	Kg/cm ²	83	ASTM D 638
b. Elongation at break	%	185	ASTM D 638
c. Hardness, 15 sec @ 23 °C	Nos.	77	ASTM D 2240
4. After immersion in Diesel @ 27° C, 24 hrs			
a. Tensile Strength at break	Kg/cm ²	96	ASTM D 638
b. Elongation at break	%	190	ASTM D 638
c. Hardness, 15 sec @ 23 °C	Nos.	80	ASTM D 2240
5. Dimension Stability			
a. In Air, @ 70° C, 4 hrs	%	0 + 0.1	ASTM D 1204
b. In Petrol, @ 27° C, 24 hrs	%	0 + 3.7	ASTM D 1204
c. In Diesel, @ 27° C, 24 hrs	%	0 + 0.1	ASTM D 1204
6. Resistance to Chemical			
a. In Petrol, @ 27° C, 24 hrs	%	0 + 13.3	ASTM D 543
b. In Diesel, @ 27° C, 24 hrs (Weight change)	%	0 + 1.2	ASTM D 543
7. Resistance to Heat @ 70° C, 4 hrs (Weight change)			
	%	0.017	ASTM D 1204

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Product Specification for PVC Masterbatches

Typical Properties / Test Methods	Unit	Colour								
		Black	Grey	Red	Orange	Green	Brown	Blue	Egg White	Yellow
1. Specific Gravity ASTM D 792	-	1.36 ± 0.03	1.30 ± 0.03	1.33 ± 0.03	1.35 ± 0.03	1.35 ± 0.03	1.38 ± 0.03	1.35 ± 0.03	1.48 ± 0.03	1.35 ± 0.03
2. Shore 'A' Hardness, 15 sec @ 23° C ASTM D 2240	Nos.	90 ± 3	90 ± 3	95 ± 3	90 ± 3	87 ± 3	86 ± 3	87 ± 3	87 ± 3	87 ± 3
3. Without Ageing										
a. Tensile Strength ASTM D 638	Kg/cm ²	130	150	160	150	150	130	150	160	150
b. Elongation (min.)	%	180	210	210	200	200	175	200	200	200
4. Volatile Loss At 130° C, 3 hrs (max.)	%	1.0	0.75	0.75	1.0	1.0	0.75	1.0	0.75	0.75
5. Thermal Stability At 200° C	Minute	50	60	40	50	40	45	50	50	60
6. Volume Resistivity (min.) Conditioning at 27° C	ohm-cm	5.5 X 10 ¹¹	1.1 X 10 ¹³	1.5 X 10 ¹³	5.5 X 10 ¹⁰	6 X 10 ¹¹	5 X 10 ¹¹	6 X 10 ¹²	3 X 10 ¹²	6 X 10 ¹¹

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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 @ 23° 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° C)	° C	80° C	100° C	135° C	80° C	100° C	135° C	135° 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° C / 7 days	mg/cm ²	2	2	2	2	2	2	2
6. Thermal Stability At 200° 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° 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

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