

PVC Compound For Insulation & Sheathing



General Information

Description: Poly Vinyl Chloride (PVC) compounds are naturally biologically and chemically resistant, making them the plastic of choice for tough applications where high resistance to corrosion is required. With the addition of stabilizers and plasticizers, it can become flexible enough to be used in various applications.

Technical Information

For Sheathing

Grade	Product Description	Classifications	Temp. Rating	Fire Retardant (FR)	Anti Termite (AT)	UV Resistant	Oil Resistant (OR)	Density (g/cm ³) ASTM D 792	Tensile Strength (N/mm ²) ASTM D 638	Elongation at Break (%) ASTM D 638	Hardness (Shore A) ASTM D 2240	Thermal Stability @ 200°C (Mi) BS 2782	Mass loss (mg/cm ²) ASTM D 573	Oxygen Index (%) ASTM D 2863
VC21110	TM -1 Nat General Purpose	BS7655-4.1: TM- 1	70°C					1.47	17	300	88	>80	<1.5	
VC71115	TM -2 Gray Flexible	IEC60227: Type D, BS7655-4.1: TM- 2	70°C					1.47	17	300	80	>75	<1.5	
VC72111	TM -2 White Flexible	IEC60227: Type D, BS7655-4.1: TM- 2	70°C					1.47	14.5	300	75	>75	<1.5	
VC81110	ST- 1 Nat General Purpose	IEC60502: ST 1	80°C					1.48	14.5	280	80	>75	<1.5	
VC90110	ST- 2 Nat	IEC60502: ST 2, BS7655-4.2: Type 9, IS 5831: Type ST 2	90°C					1.4	20	300	92	>75	<1.0	
VC92112	ST- 2 Black	IEC60502: ST 2, BS7655-4.2: Type 9, IS 5831: Type ST 2	90°C			✓		1.5	16.5	300	85	>75	<1.5	
VC95220	ST-2 FR Cat-A	IEC60502: ST 2, BS7655-4.2: Type 9	90°C	✓				1.37	20	300	90	>75	<1.5	>33
VC95530	ST-2 FTR Cat-C	IEC60502: ST 2, BS7655-4.2: Type 9, IS 5831: Type ST 2	90°C	✓	✓			1.5	18	285	85	>80	<1.2	>30
VC95540	ST-2 FTR Cat-A	IEC60502: ST 2, BS7655-4.2: Type 9, IS 5831: Type ST 2	90°C	✓	✓			1.5	18	300	85	>80	<1.2	>33
VC95630	ST-2 FOTR Cat-C	IEC60502: ST 2, BS7655-4.2: Type 9, IS 5831: Type ST 2	90°C	✓	✓	✓	✓	1.5	17.5	275	85	>80	<1.0	>30
VC95640	ST-2 FOTR Cat-A	IEC60502: ST 2, BS7655-4.2: Type 9, IS 5831: Type ST 2	90°C	✓	✓	✓	✓	1.5	17.5	275	85	>80	<1.0	>33
VC92763	ST-2 FTUFSOR	IEC60502: ST 2, BS7655-4.2: Type 9, IS 5831: Type ST 2	90°C	✓	✓	✓	✓	1.47	16.5	300	85	>80	<1.0	>30
VC92663	TM53 FUVSR/CAT-A Black	BS EN 50290-2-22	90°C	✓		✓		1.5	19	260	90	>80	<1.5	
VC68110	ST-1 Nat General Purpose	IEC60502: ST 1, BS7655-4.2: Type 6	80°C					1.58	16.5	275	89	>60	<2.0	

For Insulation

Grade	Product Description	Classifications	Temp. Rating	Fire Retardant (FR)	Density (g/cm ³) ASTM D 792	Tensile Strength (N/mm ²) ASTM D 638	Elongation at Break (%) ASTM D 638	Hardness (Shore A) ASTM D 2240	Tensile Strength (N/mm ²) ASTM D 638	Insulation Resistance (MΩ.Km) BS 7682	Hardness (Shore A) ASTM D 2240	Thermal Stability @ 200°C (Mi) BS 2782	Mass loss (mg/cm ²) ASTM D 573
VC14110	TI-1 General Purpose	BS50363-3: TI-1	70°C		1.45	18.5	285	88	115	>75	<1.5	>80	<1.5
VC41110	TI-2 Flexible	BS50363-3: TI- 2	70°C		1.5	17	290	75	10	>75	<1.5	>75	<1.5
VC31110	TI-3 Heat Resistant	IEC60227: Type E, BS7655-3.1: TI-1, BS7655-4.1: TM-3	90 - 105°C	✓	1.4	20	275	90	>300	>275	<1.5	>75	<1.5
VC33110	SI-3 Heat Resistant UL	BS7655-3.1: TI -3, UL1581: THHN/ THWN /UL-83, DIN/VDE 207: Part 4	105°C	✓	1.4	22	300	90	>250	>260	<1.5	>75	<1.5
VC52110	SI-5 Heat Resistant	IEC60227: Type E	85°C	✓	1.4	22	325	90	>350	>225	<1.5	>75	<1.0

The grades presented herein are for reference only. Customized compounds including specific colors, tailored properties, and specialized packaging are available upon request.

The information in this datasheet is provided for guidance purposes and is subject to change without notice. While compiled in good faith and deemed accurate at publication, Energyya Plastics assumes no liability for its application. Please note that actual dimensions may vary due to standard manufacturing tolerances.