

**ADVANCED EXTRUDED VIVID PVC SHEET**
**PROPERTIES PHYSICAL DATA**

|                          | PROPERTY                                | TEST METHOD   | UNITS             | AVERAGE VALUE          |
|--------------------------|---|---------------|-------------------|------------------------|
| Physical Characteristics | Density                                 | ASTM D792     | g/cm <sup>3</sup> | 1.4                    |
|                          | Rockwell Hardness                       | ASTM D785     | R-SCALE           | 97R                    |
| Mechanical Properties    | Tensile Strength at Yield               | ASTM D638     | MPa               | 50                     |
|                          | Tensile Strength at Break               | ASTM D638     | MPa               | 45                     |
|                          | Elongation at Yield                     | ASTM D638     | %                 | 3                      |
|                          | Elongation at Break                     | ASTM D638     | %                 | >80                    |
|                          | Flexural Strength                       | ASTM D790     | MPa               | 80                     |
|                          | Flexural Modulus                        | ASTM D790     | MPa               | 2,700                  |
|                          | Tensile Modulus of Elasticity           | ASTM D638     | MPa               | 2,900                  |
|                          | Impact Falling Weight                   | ISO6603/1 E50 | J                 | 95                     |
| Thermal Properties       | Heat Deflection Temperature             | ASTM D648     | °C                | 65-68                  |
|                          | Coefficient of Linear Thermal Expansion | ASTM D696     | cm/cm°C           | 6.7 x 10 <sup>-5</sup> |
|                          | Service Temperature                     |               | °C                | -10 to +50             |
|                          | Thermal Conductivity                    | ASTM C177     | W/m K             | 0.15                   |
|                          |   |               |                   |                        |

**CHEMICAL RESISTANT PROPERTIES**

| NAME OF CHEMICAL      |               | NAME OF CHEMICAL   |   |
|-----------------------|---------------|--|---|
| Hydrochloric Acid 35% | V             | Diesel Fuel  | V |
| Sulphuric Acid        | <80 V (>80 G) | Glycerine  | V |
| Nitric Acid 60%       | V             | Chlorine Water 2%  | V |
| Formic Acid           | V             | Chlorine Gas (wet & dry)                                   | P |
| Lactic Acid 20%       | V             | Butane   | P |
| Caustic Soda 50%      | V             | Kerosene   | V |
| Ammonia Water         | P             | Gasoline   | V |
| Sodium Disulphide     | V             | Bleaching Solution 12% Chlorine                            | V |
| Acetone               | G             | Oxygen   | V |
| Ethyl Alcohol (pure)  | V             | Developing (Fixing Liquid for Photography)                 | V |
| Butyl Alcohol         | V             | Sea Water/Salt Water                                       | V |
| Benzene               | P             | Allyl Alcohol  | G |
| Ammonia Gas           | P             | Formaldehyde   | G |
| Carbon Disulphide     | P             |  |   |
| REMARKS               | V             | Denotes Safely applicable (absolutely corrosion resistant) |   |
|                       | G             | Denotes applicable (Low corrosion resistant)               |   |
|                       | P             | Denotes inapplicable                                       |   |

**ADVANCED VIVID PVC**

**ADVANCED VIVID PVC** is suitable for cladding in food preparation areas such as dairies, abattoirs, cafes, restaurants and bakeries. In chemical process industries, laboratories, clinics & hospitals.

**Advanced VIVID PVC**

This material is impact resistant to a wide variety of shocks, offering resistance to a wide range of chemicals including alkalis, acids, alcohols etc. as well as powerful resistance to salt air and aggressive industrial environment. Minimal water absorption means that steam cleaning to a maximum temperature of 60°C and power hosing will have no effect. The material has obtained a Fire rating "Class 1" BS 476 Part 7 1971 "Surface Spread of Flame".

Also: EN13501 B, s2-3,do. DIN 4102 B-1. ASTM E-84 Class A

**This material should be cleaned by using warm soapy water, or stubborn stains and marks may be cleaned with proprietary milk cleaner such as Cif (Jif).**

**PVC Cream or Solvent cleaners are also available, if required.**

