

DSM 3.8.3 PVC SHEET (Low-Weight Flat Foamed)

General:

PVC (vinyl) is a fire-resistant plastic, the only exception among the general-purpose plastics, since more than 50% of its constituent is derived from salt. It is one of the cheapest, most versatile & widely used of polymers with excellent electrical insulating & chemical properties.

The PVC melt is exposed to heat and pressure in an extruder and formed into sheet or film by **calendering** rollers. Temperature & speed of the rollers influence the properties of the film whilst the last pair applies the surface finish (texture) & thickness.

Benefits:

- Quicker process, compared to cast, equals lower production costs.
- Available in a broad range of colours & dimensions.
- Good chemical resistance.
- Low water absorption.
- Easily bonded, vacuum formed, nailed and bolted.
- Non-toxic.

Limitations:

- Suitable for flat & moderate curves.
- Shrinkage, can be 3%.
- Better suited for indoor applications.

ASM (DEK) Applications:

- PVC sheet used in manufacture of Custom/Bespoke equipment trollies for Production/Test purposes on shop floor.
- Base for Tool Drawers.
- Shelf material for workbench.

These values are representative. For critical applications, refer to data-sheet.

MECHANICAL PROPERTIES					
MATERIAL DETAILS	TENSILE STRENGTH:	YOUNGS MODULUS:	POISSONS RATIO:	DENSITY:	UL No:
PALFOAM	11-16 MPa	0.9 GPa	0.35	500-600 Kg/m³	----

Alternatives:

Alternative polymers are allowed only with the express written permission of ASMPT. Please email details of your request to engineering_enquiries@asmpt.com

Issue	01	02	03	04	05	06	07	08	09
DCR	45239								

