SEALING YOUR FUTURE

PLASTICS

Technical Data Sheet

Rigid PVC

PVC plastic (chemically known as Polyvinyl Chloride) is sold in standard stock shapes for machining. PVC is one of the most commonly used plastic polymers globally. PVC is a unique semi-crystalline, engineering thermoplastic that also offers excellent chemical compatibility. With very high density, rigid PVC is extremely strong and exceptionally hard, in addition to, low water absorption, good flammability and weather resistant properties. Furthermore, PVC is easily machined, allowing close tolerances without great difficulty.

This material is also readily available and very cost effective, making it an ideal choice for a number of industrial, construction and laboratory applications.

key characteristics

- Rigid high mechanical strength
- Corrosion resistant
- Low moisture absorption
- Fire resistant
- Good weather resistance
- Excellent chemical resistance
- Good flame resistance

applications

- Chemical tanks
- Swimming pools
- Signage and display
- Electrical applications
- Suction units
- Glazing

ISOQAR REGISTERED UKAS MANAGEMENT SYSTEMS 0026

Certificate Number: 14352
ISO 9001

UK GASKET & SEALING ASSOCIATION

Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

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Contact

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Macclesfield, Cheshire
SK10 5JZ
United Kingdom

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MATERIAL PROPERTIES	STANDARD	UNIT	VALUE
DENSITY	ISO 1183	g/cm3	1.42
WATER ABSORPTION (@23° C Saturation)	ISO 62	%	<0.01
MECHANICAL			
TENSILE STRESS AT YIELD	ISO 527	MPa	58
ELONGATION AT BREAK	ISO 527	%	15
IMPACT STRENGTH	ISO 179	(kJ/m2)	no break
NOTCHED IMPACT STRENGTH	ISO 179	(kJ/m2)	4
BALL INDENTATION HARDNESS	ISO2039-1	(N/mm2)	130
SHORE HARDNESS	ISO 868	-	85
MODULUS OF ELACTICITY	ISO 527	MPa	3000
THERMAL			
SOFTENING POINT	ISO 306	°C	90
COEFFICIENT OF LINEAR THERMAL EXPANSION (23-80°C)	DIN 53752	$K^{-1*10-4}$	0.8
THERMAL CONDUCTIVITY	DIN 52612	W/m*K	0.159
MAX WORK TEMP	-	°C	50
MAX BRIEF TEMP	-	°C	70
MIN TEMP	-	°C	0
ELECTRICAL			
SURFACE RESTIVITY	IEC 60093	Ohm	1013
DIELECTRIC STRENGTH	VDE 0303	kV/mm	39
PHYSIOLOGICAL			
FOOD CONFORMITY TO EU DIRECTIVE 2002/72/EC			NO

Technical data given above refers to a 40mm thick sheet, this data may vary slightly depending on material thickness.

All information is given in good faith and without warranty

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