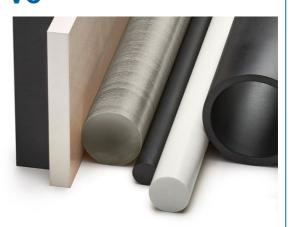




Technical Data Sheet Rigid PVC

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



Care should be taken in selecting the most suitable quality for each application. Advice is available, but



UK GASKET & SEALING

final responsibility remains with the customer.

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Technical Data Sheet

	Rigid PVC			
MATERIAL PROPERTIES	STANDARD	UNIT	VALUE	
DENSITY	ISO 1183	g/cm3	1.42	
WATER ABSORPTION	ISO 62	%	<0.01	
(@23° C Saturation)				
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 material thickness.	o a 40mm thick she	et, this data m	ay vary slightly deper	nding o
All information is given in good faith	and without warrar	stu		

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0026 Certificate Number: 14352 ISO 9001



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