

BUMPERSTOPS Technical

Polyurethane Physical Properties

Property	Test Method	Transparent	Coloured
Hardness	ASTN D-2240	66-70	66-70
Tensile Strength	BS903	2.7 MN/m ²	2.1 MN/m ²
Elongation	BS903	106%	130%
Tear Strength	BS903	11.5 kN/m	9.2 kN/m
Abrasion Resistance	BS EN 5470-1:1999	0.4g loss	0.2g loss
Flame Retardancy	UL94HB	Pass	Pass
Application Temperature		-20°C to 80°C	-30°C to 65°C
Coefficient of friction	ASTM D-1894-78		
<i>Shelf Life—12 months when stored at room temperature</i>	A Stainless Steel	5,69	2,52
	B Glass	2,9	2,7
	C Smooth VPC floor Tile	2,62	2,5
	D High impact polystyrene	2,53	2,37

Adhesive Data

6000 Series Rubber Adhesive

The 6000 series adhesive is an aggressive high tack adhesive system, which displays good instant tack, high peel and shear properties. Usually chosen for applications which require high levels of initial tack. Unless otherwise specified, standard on all coloured Bumperstops.

4000 Series Acrylic Adhesive

This is an adhesive with good shear strength and a higher end use temperature. Usually preferred for applications where good ageing properties are a required feature. Unless otherwise specified, standard on all transparent Bumperstops.

	Properties	6000 Series	4000 Series
Adhesive Characteristics	System Thickness Backing Liner Adhesive Feature	Solvent Rubber 0.002 120 gsm paper High initial tack	Solvent Acrylic 0.002 120 gsm paper Good ageing properties
Adhesive Performance	Shear Strength @ 21°C Shear Strength @ 49°C	Excellent Excellent	Excellent Excellent
Application Temperature		15°C to 65°C	10°C to 65°C
End Use Temperature		-10°C to 80°C	-20°C to 80°C
Recommended Storage Temperature		21°C	21°C

Exposure to the Environment Bumperstops are intended for interior applications where physical properties will remain unchanged. When used externally for extended periods, some discolouration as well as loss of adhesion may occur.

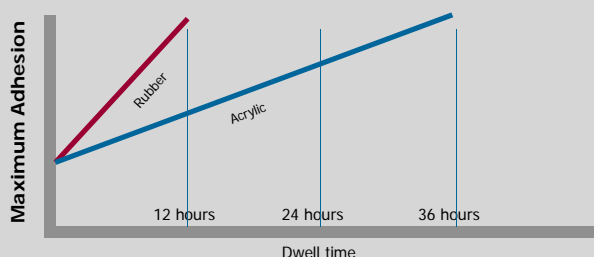
Load Tolerance Information

In the event of using Bumperstops for applications involving the support of heavy plate glass, laboratory tests have shown that cylindrical shapes perform better than hemispherical.

A heavy load supported by the wrong style of Bumperstop could result in fracturing or "crumbling" of the urethane material. Please refer to the chart for weight loading guidance.

Compression tests were carried out at ambient temperature (24°C)

Product	Colour	Profile	Kg per bumper
PD.2115C	Transparent	Hemispherical	5
PD.2150C	Transparent	Hemispherical	10
PD.2127C	Transparent	Square	12
PD.2205C	Transparent	Square	24
PD.2120C	Transparent	Cylindrical	10
PD.2125C	Transparent	Cylindrical	15
PD.2191C	Transparent	Cylindrical	26
PD.2019C	Transparent	Cylindrical	24



Adhesive Considerations

Please refer to the chart which illustrates the relative adhesion properties of the adhesive systems used in Bumperstops

In general terms, allow time (dwell) to increase the surface contact and adhesion. Please note that acrylic based adhesives generally require longer dwell times than rubber based adhesive.

Applying Bumperstops

It is important to remember that, as with any self adhesive product, the surface to which you are applying Bumperstops must be clean, dry and free from dust and dirt. Therefore, to gain maximum adhesion, clean the surface with low strength solvent and allow to dry thoroughly. Please follow solvent manufacturers' instructions for safety. The information provided above have been gained under laboratory conditions, therefore customers must test Bumperstops themselves to ensure suitability for intended applications.

All Bumperstops are RoHS and Wee compliant.

Basic Technical Information

Property	Coloured	Transparent
Hardness	66-70	66-70
Adhesive System	Solvent Acrylic	Solvent Rubber
Adhesive Feature	High Initial Tack	Good Ageing Properties
Backing Liner	120gsm silicone Paper	120gsm silicone Paper
Application Temperature	15°C to 65°C	10°C to 65°C
End Use Temperature	-10°C to 80°C	-20°C to 80°C
Reccomended Storage Temperature	21°C	21°C

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