

Technical Data
October 2014

Using a highly transparent yet resilient, soft 55 shore A polyurethane material we have created a high quality Self-adhesive door dampening bumper. This range has been specially formulated to provide a consistent sound dampening performance whilst having an aggressive high performance pressure sensitive adhesive.

Applications for this range of products include any industries where excellent sound dampening properties are required. Typical markets are kitchen & bedroom furniture, Industrial & school lockers, cupboards in boats & caravans etc. This programme is not suitable for supporting heavy items such as glass. For this application please refer to our standard BumperStop protectors range

Polyurethane base material

Polyurethane Physical Properties

Property	Test Method	9025/9010/9095/9125/9931
Hardness (shore A)	ASTN D-2240	50-55
Tensile Strength (Mpa)	BS903	2.3MN/m2
Elongation (%)	BS903	165
Tear Strength (KN/m)	BS903	12
Abrasion Resistance (MG loss)	BS EN 5470-1:1999	350
Flame Retardency	UL94HB (In house)	Pass
Kinetic Coefficient of friction	ASTM D-1894-78	
	A Stainless Steel	2.52
	B Glass	2.7
	D High impact polystyrene	2.37

Shelf Life - 12 months when stored in original packaging at room temperature

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

SuperSoft BumperStops are not recommended for load bearing applications, as they are manufactured from a softer than usual polyurethane material and are intended for door dampening applications only.

If customers wish to use this product for such applications they should be aware that much lower values will be achieved. Please refer to the chart below before use.

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

Product	Colour	Profile	Kg per BumperStop
PD.9025	Clear	Hemispherical	1.25
PD.9010	Clear	Hemispherical	1.8
PD.9095	Clear	Hemispherical	1.8
PD.9125	Clear	Cylindrical	4
PD.9931	Clear	Cylindrical	1.9

Technical Data
October 2014
Adhesive Data

The 6001 adhesive is an aggressive high tack rubber based adhesive system which displays good instant tack, high peel and shear properties. 6001 works particularly well on slightly irregular surfaces where high initial tack is benefit.

	Properties	6001
Adhesive Characteristics	System Thickness Backing Liner Adhesive Feature (key)	Solvent Rubber 0.002 160gms paper High initial tack & shear
Application Temperature	Shear Strength @ 21°C Shear Strength @ 49°C	Extremely good Extremely good
Service Temperature		15°C to 65°C
Storage Temperature		-10°C to 70°C
Adhesive Performance		Room temperature

Substrate adhesion performance

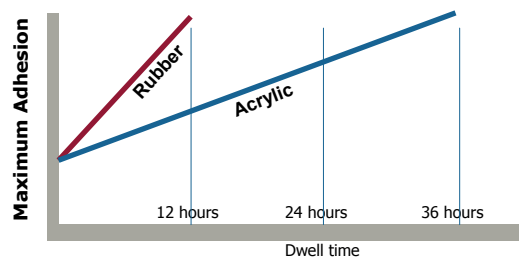
Surface Material	6001	6001		
	20 minute @ 23°C	24 hours @ 23°C		
Stainless Steel <u>Peel FINAT 1</u> <u>Shear FINAT 8</u>	24.4 N/25mm	44.7 N/25mm		
Aluminium <u>Peel FINAT 1</u>	33.8 N/25mm	44.1 N/25mm		
Glass <u>Peel FINAT 1</u>	40.5 N/25mm	39.5 N/25mm		
HPDE <u>Peel FINAT 1</u>	16.8 N/25mm	27.2 N/25mm		
PS <u>Peel FINAT 1</u>	21.8 N/25mm	31.8 N/25mm		
ABS <u>Peel FINAT 1</u>	31.4 N/25mm	33.9 N/25mm		

Adhesive Considerations

Please refer to the chart which illustrates the relative adhesion properties.

Please note that unlike standard acrylic adhesives found with most products of this type the 6001 rubber based has been specially selected because of the needs of the modern furniture industry.

As with all self-adhesive products it is advisable to ensure to surface to which the BumperStops are applied is clean, dry and free from dirt or dust.


APPLYING BumperStops

It is important to remember, that as with any self adhesive product, the surface to which they are being applied 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 before use. Please follow solvent manufacturers' instructions for safety.

DISCLAIMER: To the best of our knowledge the information in this technical data sheet is believed to be correct as of the date issued. However, neither BumperStops Ltd nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user.

All BumperStop protectors are RoHS and Wee compliant.