BumperFeet

Technical Data Sheet 2026

Product Classification

BumperFeet® are premium, self-adhesive protective components engineered for multi-purpose utility. Designed to function as feet, stops, and spacers, they deliver superior surface protection across diverse industrial and commercial applications. The non-slip, sound-dampening, and highly durable polyurethane composition ensures components remain non-marking while preventing scratches and abrasions on adjacent surfaces. Manufactured in the UK, BumperFeet® are formulated from plasticiser-free polyurethane and backed by a high-tack, age-resistant pressure-sensitive adhesive system.

Surface Preparation

For optimal adhesion and long-term bond performance, BumperFeet® must be applied to smooth, non-porous surfaces. Substrates must be thoroughly cleaned, dry, and entirely free of dust, oils, grease, or chemical residues prior to installation.

Polyurethane Properties

Property	Method	Average Result Carried out on 4112
Shore Hardness A	ASTN D2240	68-76
Tensile Strength	ASTM D412 Die C 500mm/min @23±2°C and 50±10%RH	5.59 MPa / 811psi
Elongation at Break	ASTM D412 Die C 500mm/min @23±2°C and 50±10%RH	68%
Tear Strength (Angle Tear)	ASTM D412 Die C 500mm/min @23±2°C and 50±10%RH	13.8 N/mm
Taber Abrasion	ISO 5470-1—CS17 Wheel 1000g	0.005 mg/1000cycles
Load Tolerance	Min 3 Mpa	Min 3 Mpa
Flame Retardancy	UL94HB (in house test)	Pass (Clear & Coloured)

Kinetic Coefficient of friction	ASTM D-1894-78	Clear	Coloured
	A Stainless Steel B Glass D High Impact Polystyrene	5.69 2.9 2.53	5.69 2.9 2.53

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

BumperFeet are intended for interior applications. If used externally for extended periods, some discolouration of the material, as well as loss of adhesion may occur.

Load Tolerance

Laboratory testing indicates that cylindrical (flat-top) BumperFeet® outperform hemispherical (domed) profiles in heavy glass support applications. Utilizing an incorrect shape or style under excessive loads can cause the polyurethane material to fracture or crumble. Consequently, consumers must consult the weight-loading chart below to ensure proper product selection and prevent material failure.

Product	Profile	Kg per part	Product	Profile	Kg per part
2120	Cylindrical	3	2010	Hemispherical	2
2125	Cylindrical	6	2150	Hemispherical	6
2191	Cylindrical	10	2127	Square	6
2020	Cylindrical	10	2205	Square	10

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

4001 Pressure-Sensitive Adhesive Specification

Standard on all BumperFeet®

High-performance, solvent-based acrylic pressure-sensitive adhesive system that comes standard across the entire product range.

This specialized adhesive formulation delivers exceptionally high instant tack, establishing an immediate, secure bond upon application. Engineered specifically for demanding substrates, it ensures robust adhesion to difficult surfaces that require elevated tack levels. Furthermore, the system demonstrates superior mechanical properties, maintaining excellent peel and shear resistance under load. Due to its advanced environmental stability, the adhesive exhibits optimal aging characteristics, preventing degradation and ensuring long-term bond integrity.

BumperFeet® are manufactured by BumperStop® and are RoHS, REACH and Wee compliant.

Peel & Shear Data

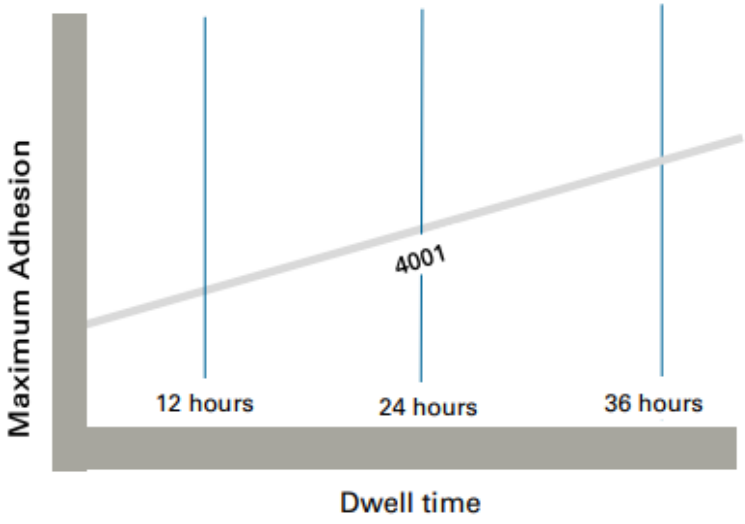
Surface Material	Test Method	4001 Pressure Sensitive Adhesive	
		20min - 23°C 50% RH	24h - 23°C 50% RH
Stainless Steel	Peel FINAT 1 Unit N/25mm	16.0	15.7
Aluminium		12.1	14.8
Glass		12.5	17.7
HDPE		4.1	4.4
Polystyrene		9.9	13.1
ABS		14.4	15.1
Stainless Steel	Shear FINAT 8		>300h
Stainless Steel	Loop Tack N/25mm	22.0	

Temperature Range

Adhesive No	Adhesive Type	Application Temperature	Service Temperature
4001	Solvent Acrylic	20°C to 40°C	- 40°C to + 120°C

Adhesive Performance and Dwell Time Evaluation Adhesion Properties

Please refer to the accompanying chart detailing the relative adhesion characteristics of the specialized adhesive system utilized across the BumperFeet® product line.



Dwell Time Requirement

To maximize bond integrity, sufficient dwell time must be allowed post-application. This period enables the pressure-sensitive adhesive to flow into the microscopic topography of the substrate, increasing total surface contact and optimizing ultimate adhesion strength.

Empirical Suitability Testing

Because real-world application environments, surface energies, and environmental conditions vary significantly, published data is for guidance only. **Customers must conduct independent verification testing under actual operating conditions to confirm material suitability for their specific application.**

Application Protocol

As with all pressure-sensitive adhesive products, achieving maximum bond strength depends entirely on the condition of the target surface. Substrates must be thoroughly clean, dry, and completely free of dust, dirt, or loose particulate matter prior to component installation.

To optimise adhesion, it may be necessary to pre-clean the surface using a low-strength solvent. If a cleaning agent is required, ensure the substrate is allowed to flash off and dry completely before applying the component. Users must strictly follow the solvent manufacturer's safety instructions and material safety data sheet (MSDS) guidelines.

For certain applications the use of an application roller is highly recommended. Applying consistent, firm pressure with a roller once the die-cut bumper is in its final position eliminates air entrapment and secures the mechanical bond.

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