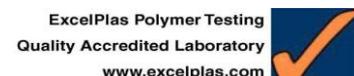


SPECIFICATIONS

Product	Plastic Forests - Plastic / Rubber Composite I-90 Dunnage							
Type	I shape recycled plastic and recycled tyre rubber dunnage/glut (I-90)							
Dimensions mm	90 (w) x 90 (h) nominal (+/- 4mm) Lengths up to 1200mm. (+/- 10mm)							
Standard Lengths mm (+/- 10mm)	300	600	870	900	1000	1165	1200	
Weight kg (+/- 5%)	1.18	2.35	3.41	3.53	3.9	4.56	4.7	
Maximum Load Rating at 23°C & Factor of Safety 3 *	4,111 kg	8,222 kg	11,922 kg	12,333 kg	13,704 kg	15,965 kg	16,444 kg	
<p>* with load weight evenly distributed across the surface area of the dunnage, and the bottom surface of the dunnage fully supported Factor of Safety = 3 to 4. For use with materials where properties are not reliable and where loading and environmental conditions are not severe, or where reliable materials are used under difficult environmental conditions. https://www.engineeringtoolbox.com/factors-safety-fos-d_1624.html</p>								
Pallet Weight kg	818	810	410	470	570	784	808	
Pallet Units	676	338	120	133	146	172	172	
Product Code	I-90/300	I-90/600	I-90/870	I-90/900	I-90/1000	I-90/1165	I-90/1200	
Colour	Black/charcoal							
Raw Material	100% Recycled polyolefins + recycled tyre rubber crumb, plus process additives							
Use	Non-structural			Electrical Conductivity			Non-conductive	
Cleanability	May be washed, steam cleaned or chemically sterilised							
Indoor/ Outdoor Use	Ideal for indoor use. May also be used outdoors but may experience sideways bending/bowing in extreme hot conditions (like timber). UV stabiliser added.							
Application	Suitable for many transport & storage applications. Provides clearance for forklift tines to lift goods & provides a stable base for goods once on the ground or truck bed. ISPM 15 compliant for export.							
Chemical resistance	Resistant to fuels, oils and most common chemicals.							

TECHNICAL REPORT conducted by ExcelPlas Polymer Testing



Coefficient of Friction - Plastic Forests Plastic / Rubber Composite I-90 Dunnage vs Solid Timber Pine Block against checker plate*

	Coefficient of Static friction ((N/g)/kg) This is for ground applications	Coefficient of Kinetic friction ((N/g)/kg) This is for 'on truck/transport' applications
Plastic Forests Dunnage I-90	Mean = 0.672 – Range 0.548 - 0.744	Mean = 0.51 – Range 0.474 – 0.555
Pine Solid Timber Block	Mean = 0.576 – Range 0.547 - 0.637	Mean = 0.35 – Range 0.309 – 0.394

* Testing is indicative: Results will vary according to the steel type, age, temperature, surface texture, level of surface weathering etc

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Compressive Strength - Plastic Forests Plastic / Rubber Composite I-90 Dunnage *

	Maximum Compressive Strength (N)	Maximum Compressive Stress (MPa)
Plastic Forests Dunnage I-90	Best case: 36,458 (N) at 23°C	Best case: 20.4 MPa @ 23°C
	Best case: 32,415 (N) at 35°C	Best case: 15.7 MPa @ 35°C
Radiata Pine Timber - Estimate	http://www.fpc.wa.gov.au/node/906	Green:19 Dry: 42

WARNINGS

Dunnage must be always used in a capital I orientation and be placed onto a stable, suitable, non-slip floor or surface before use • For use on flat surfaces only. Ensure all surfaces are free of loose materials such as dirt, oils etc. • Ensure the load is spread over the whole surface area of the dunnage • Not to be used for point-to-point loading. • Ensure that the surface can carry the intended load • Not to be used for steel pipes or smooth surfaced steel without a full risk assessment • Always perform your own risk assessment before using this product • Always know the weight being supported • Never exceed the maximum loading • Under no circumstances does the maximum loading mentioned above take into consideration point loading or uneven weight distribution of the supported load.

**** SINGLE LAYER USE ONLY – NON STACKABLE – NOT TO BE USED AS CRIBBING**

NOT TO BE USED FOR SUPPORTING MOBILE PLANT / EQUIPMENT /MACHINERY **

SERVICE & RE-CERTIFICATION

Plastic Forests' Plastic / Rubber Composite I-90 Dunnage has a design life of many years. However, a service interval of up to 2 years applies from the date of manufacture before factory inspection and possible recertification for another 2 years is required. The Service Due Date stamped on each item acts as a guide only, as the functional life is dependent on factors outside the control of the manufacturer such as usage, storage, environmental and operational conditions.

Dunnage should be visually inspected at each time of use for signs of spine deformation/compression (indicating overloading has occurred), damage, cracks, deterioration or penetration; worn, damaged, deformed or smooth contact face areas which may result in a loss of grip; or any other damage due to impact, rough treatment, or inappropriate use. Dunnage exhibiting such damage or deterioration, or dunnage past its 'Service Due Date' should be immediately withdrawn from service and returned to Plastic Forests for possible recertification, re-surfacing or end of life recycling back into new I-90 dunnage.

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