

DESCRIPTION

Trackelast FC600 is a natural rubber bonded cork, cellular product designed with specific static and dynamic stiffness properties together with low damping, to provide optimum vibration attenuation characteristics.

FC600 is normally faced on one or both sides with a tough Geofelt protection layer. Manufactured in thicknesses up to 25mm, in a standard sheet size of 1200 x 1000mm. Other sizes can be made to suit customer requirements. Geofelt protection layer adds 3mm to the thickness of the sponge layer.

APPLICATION

Trackelast FC600 has been designed as an active vibration damping material in ballast mats, undersleeper pads and other resilient systems to reduce the propagation of vibration from rail tracks.

TYPICAL PHYSICAL PROPERTIES

Test	Method	Conditions	Data	Units
Density	ISO 2781		0.45	g/cm ³
Tensile Strength	ISO 37		0.7	MPa
Elongation at Break	ISO 37		250	%
Electrical Resistance, 25mm	BS 903 pt.C2	500v dc	5 x 10 ¹¹	Ω
“ , 25mm	RT/CE/S/052	500v ac, 2000 Hz	3.0	MΩ
“ , 10mm	RT/CE/S/052	500v ac, 2000 Hz	570	kΩ
Static Stiffness, 10mm	BN 901 071	0.02 - 0.1 MPa	60	kN/mm/m ²
Dynamic Stiffness, 10mm		0.02 - 0.1 MPa, 2Hz	70	kN/mm/m ²
Static Bedding Modulus, 10mm	BN 901 071		0.06	N/mm ³
Static Stiffness, 15mm		0.02 - 0.1 MPa	41	kN/mm/m ²
Dynamic Stiffness, 15mm		0.02 - 0.1 MPa, 2Hz	47	kN/mm/m ²
Static Bedding Modulus, 15mm	BN 901 071		0.04	N/mm ³
Static Stiffness, 20mm		0.02 - 0.1 MPa	30	kN/mm/m ²
Dynamic Stiffness, 20mm		0.02 - 0.1 MPa, 2Hz	35	kN/mm/m ²
Static Bedding Modulus, 20mm	BN 901 071		0.03	N/mm ³
Static Stiffness, 25mm		0.02 - 0.1 MPa	25	kN/mm/m ²
Dynamic Stiffness, 25mm		0.02 - 0.1 MPa, 2Hz	28	kN/mm/m ²
Static Bedding Modulus, 25mm	BN 901 071		0.025	N/mm ³

HISTORY & SERVICE

Trackelast FC600 has been in service since 1991. Since that time FC600 has been used extensively as ballast mats, undersleeper pads and in other resilient anti-vibration applications.

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