

DESCRIPTION

Trackelast FC250 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.

FC250 is normally faced on one or both sides with a tough Geofelt protection layer to prevent damage from ballast stones.

FC250 is manufactured in thicknesses up to 30mm, in a maximum sheet size of 1200 x 1000mm.

APPLICATION

Trackelast FC250 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, 25mm		0.02 - 0.1 MPa	25	kN/mm/m ²
Dynamic Stiffness, 25mm			28	kN/mm/m ²
Static Stiffness, 20mm		0.02 - 0.1 MPa	30	kN/mm/m ²
Dynamic Stiffness, 20mm			35	kN/mm/m ²
Static Bedding Modulus, 25mm		0.02 - 0.1 MPa	0.025	N/mm ³
Water Absorption			0.08	g/cm ³

HISTORY & SERVICE

Trackelast FC250 has been in service since 1991. 33,000 m² were installed in the form of ballast mats in the Willemspoortunnel in Rotterdam after extensive testing. Since that time FC250 has been used extensively as ballast mats, undersleeper pads and in other resilient anti-vibration applications.

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