

DESCRIPTION

This material combines the exceptional resilience of selected high quality cork granules with the toughness and abrasion resistance of a thermoplastic polyester. It is an extremely hard-wearing but versatile material, which, with its excellent attenuation properties, makes it useful in a variety of under rail/ baseplate applications. Trackelast FC105A is often chosen because of its uniform static to dynamic stiffness ratio.

APPLICATION

Trackelast FC105A is a rail seating pad material originally developed for use as a continuous support strip on paved concrete track (PACT). It can also be used between either flat-bottomed rails and concrete sleepers or flat-bottomed rails and malleable iron or steel baseplates. The pad material is designed for maximum axle loads of 25 tonnes and speeds up to 250km/hour. It is suitable for a temperature range of -40°C to +70°C.

TYPICAL PHYSICAL PROPERTIES

Test	Method	Conditions	Data	Units
Hardness	ISO 48		90 ± 5	°IRHD
Density	ISO 2781		1.00 ± 0.1	g/cm ³
Tensile Strength	ISO 37		8.2	MPa
Elongation at Break	ISO 37		110	%
Abrasion Resistance	Taber	3000 cycles, 1000g, H22 wheels	0.1	mm loss
"	Taber	3000 cycles, 1000g, H22 wheels	0.2	g loss
Electrical Resistance	BS 903 pt. C2	500v dc, Dry	10 ⁵	MΩ
"	BS 903 pt. C2	500v dc, Wet	10 ⁴	MΩ
"	RT/CE/S/052	500v ac, 2000Hz	310	kΩ
Static Deflection		5-25 kN on 200 x 120 x 10mm	0.53 ± 0.1	mm
Dynamic Deflection		6-26 kN (5Hz) on 200 x 120 x 10mm	0.40 ± 0.1	mm
Static/Dynamic ratio (K)			1.40 ± 0.1	

HISTORY & SERVICE

Trackelast FC105A has been developed especially for use under intensive loading conditions.

Pads which are in service both in the U.K. and in Hong Kong, (MTRC), have shown extremely good resistance to wear and excellent immunity to change in properties over long periods of use.

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