

Linard® HD Range

Technical Specifications

WEIR

Minerals



Where only the toughest and hardest rubbers survive

The Linard® HD range of products are natural/synthetic rubber blends specifically designed to exhibit exceptional toughness without compromising natural elasticity. Linard® HD products are particularly suited to high impact applications or the handling of coarse aggregates, where cutting and gouging play a major part in the abrasive force.

The Linard® HD range includes Linard® HD60, Linard® HD70 and Linard® HDS. Linard® HD60 rubber is ideally suited for the aqueous applications involving aggregates, in which sliding abrasion is the major concern. In applications such as primary screen decks and heavy duty transfer chutes, where cutting and slashing by sharp edged heavy particles is the leading cause of abrasion, Linard® HDS and Linard® HD70 rubbers are the recommended solutions within the Linatex® family.

Formulated to withstand severe abrasion in dry or humid applications, the Linard® HD range provides superior protection to plant and machinery, guarding against premature failure and unscheduled maintenance.

Bonding Systems and Installation

Specifically designed two part bonding systems are available from Weir Minerals. Please consult your local representative for advice on the most suitable bonding method.

Design Features

- Superior strength and resilience for severe abrasion
- Exceptional resistance to chunking and gouging
- Suited for dry or damp applications where there is heavy impact

Applications

- Dredge hose or duties where aggressive abrasion and/or large coarse angular particles are a major problem
- Screen decks and underpans for severe applications in the mining extractive industries
- Transfer chutes in which heavy duty impact due to particle size is a major problem

Size/Availability

- Sheet size (to 30mm thickness): 9.25m x 1.23m nominal (approx. 30ft x 4ft)
- Sheet size (>30mm thickness): 3.05m x 1.23m nominal (approx. 10ft x 4ft)
- Part sheets available to order
- Standard thickness range: 3.0mm to 50mm (approx. 1/8" to 2.0")

Typical Physical Properties

PROPERTY	TEST STANDARD	LINARD® HD60	LINARD® HD70	LINARD® HDS
Polymer Type		Natural / Synthetic	Natural / Synthetic	Natural / Synthetic
Hardness (IRHD)	ISO 48 - 2010	60	70	70
Modulus @ 500% (MPa)	ISO 37 – 2011	16.0	17.0	10.0
Tensile Strength (MPa)	ISO 37 – 2011	21.4 (3100 psi)	21.4 (3100 psi)	22.8 (3300 psi)
Elongation at Break (%)	ISO 37 – 2011	470%	450%	580%
Tear Strength (N/mm)	ASTM D624-00 - 2012	90 (513 lbf/in)	96 (548 lbf/in)	100 (570 lbf/in)
Specific Gravity	ISO 2781 - 2008	1.09	1.14	1.14
Resilience (%)	BS 903. Part A8 1990	55%	54%	57%
Operating Temperatures (continuous use)		-40°C to 75°C / -40°F to +167°F	-40°C to 75°C / -40°F to +167°F	-40°C to 75°C / -40°F to +167°F