

C.C.Components Pty Ltd

Properties of Rubber Conveyor Belting

Cover Grade Compounds

The following tables provide a comparison of general characteristics of polymers used in belting compounds. Special compounding can result in substantial changes to these general polymer properties.

Generally conveyor belts are supplied with electrical resistance in the anti-static range & should not be used for electrical insulation. Special non-conductive grades are available upon request.

If in any doubt please consult

Common Description	N	M	SAR	MOR	HOR	HR	E
Application	Medium to Heavy Weight Mining & Quarrying	Heavy to Extreme with Lumps & Abrasion	Abrasion Resistant for Fine Materials	Medium Oil Resistant for Wood Chips & Grain	Oil & Heat Resistant	Heat Resistant for Lumpy Abrasive Materials	Anti Static for Grain Handling
AS1332 Brand	N	M	A	Z-SOR	Z-Nitrile	Z-CRHR	E
Weathering & Ozone Resistance	Good (Note 1)	Good (Note 1)	Good (Note 1)	Fair/Good	Fair	Fair	Good
Cut/Tear Resistance	Good	Very Good	Good	Good	Very Good	Very Good	Good
Abrasion Resistance	Very Good	Very Good	Excellent	Good	Very Good	Very Good	Very Good
Acid Resistance	Good (Note 4)	Good (Note 4)	Good (Note 4)	Good (Note 4)	Good (Note 4)	Good (Note 4)	Good (Note 4)
Mineral/Oils	Poor	Poor	Poor	Very Good	Excellent (Note 7)	Fair	Poor
Service Temp Range °C	-30 to 70	-30 to 70	-30 to 70	-20 to 70	-10 to 125 (Note 3)	-10 to 125	-20 to 70
Flame Resistance	Poor	Poor	Poor	Poor	Poor	Poor	Poor

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Cover Grade Compounds

Common Description	K MSHA Sugar FRAS	FRAS	FRAS	EPT	Quarry Master
Application	Sugar, Grain & Coal Handling	Underground Conveying	Above Ground Conveying	Maximum Heat Resistance for Fine Materials	Medium to Heavy Duty Mining & Quarrying
AS1332 Brand	K (Note 5)	S, D (Note 5)	D, E, F (Note 5)	Z EPT	Z QUARRYMASTER
Weathering & Ozone Resistance	Good (Note 1)	Very Good	Very Good	Good	Good (Note 1)
Cut/Tear Resistance	Good	Very Good	Very Good	Fair	Excellent
Abrasion Resistance	Fair	Excellent	Excellent	Good	Very Good
Acid Resistance	Good (Note 4)	Good (Note 4)	Good (Note 4)	Very Good	Good (Note 4)
Mineral/Oils	Poor	Good (Note 6)	Good (Note 6)	Poor	Poor
Service Temp Range °C (Notes 2 & 3)	-30 to 70	-10 to 100	-10 to 100	-20 to 210 (Note 3)	-30 to 70
Flame Resistance	Excellent	Excellent	Excellent	Poor	Poor

Notes referred to in these tables are:

Note 1. Available with extended ozone resistance capabilities.

Note 2. The low temperature performance figures given in the tables are representative of general purpose compounds in each classification. Belts for operation at lower temperatures than those given are available.

Note 3. The high temperature performance figures given in the tables are representative of situations where the belt is subject to relatively long exposures of blanketing heat. Considerably higher temperature bulk material can often be carried in ventilated situations or where the belt surface can be shielded to some extent by a protective layer of cooled fines.

Note 4. Resist most acids except concentrated strongly oxidizing ie., Sulphuric, Nitric & their derivatives. Please contact C.C.Components Pty Ltd for specific applications.

Note 5. Fire Resistant & Anti Static grades:

Grade S Meets AS4606 for Underground Coal Mining

Grade E, F Mostly for enclosed above ground use

Grade K Fire Retardant & Anti Static, meets MSHA 2G & ISO433 requirements

Note 6. Resists most oils however resistance may vary greatly depending on the type of oil. Please contact C.C.Components Pty Ltd for specific applications.

Note 7. May have poor resistance to oils with low aniline points.

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