

TIVAR® PROFILES, WEARSTRIPS SCRAPER BLADES & CHAIN GUIDES

Quadrant Chemplast (Pty) Ltd offers a standard range of TIVAR® ram extruded and compression moulded profiles, chain guide shapes, wearstrips and corner wear bends. Profiles can be supplied in special colours and lengths to meet your specific requirements.

In addition to our standard range of more than 65 different profiles, we offer custom designed extruded or machined profiles as well. All TIVAR® materials at Quadrant Chemplast (Pty) Ltd are made with state-of-the-art compression moulding and RAM extrusion systems. This ensures unsurpassed economic feasibility.

Wear strips are used to reduce wear or erosion in mechanical systems. They are used wherever abrasion, impact, or heat may cause wear and tear on mechanical components. The proper selection of wear strips, plates and parts requires an understanding of both application requirements and product specifications.

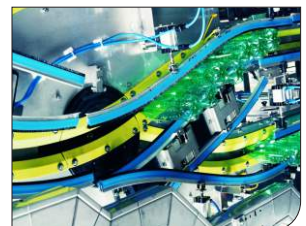
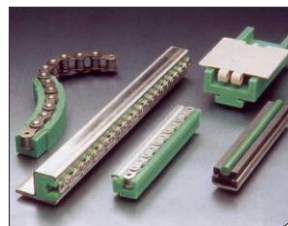
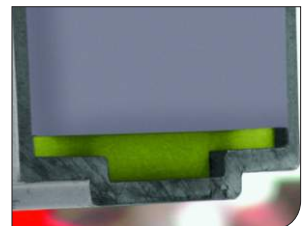
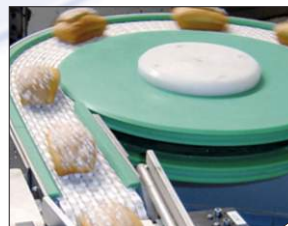
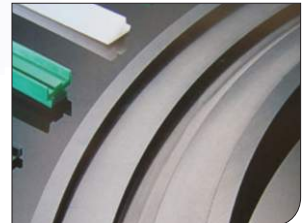
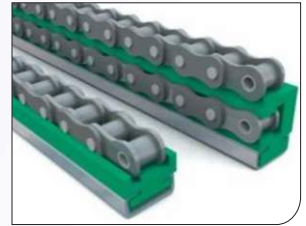
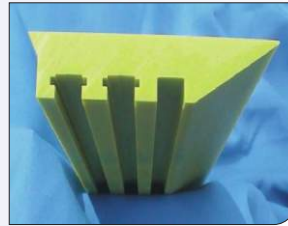
Wear Strips protect manufacturing machinery from abrasion or impact. These specially-designed wear strips are resistant to the abrasive effects of the bulk processing of grain, ore, salt, limestone, coal, glass, and fly ash.

Anti-static and UV treated grades are available on

The Benefits of TIVAR®:

- Lower drag
- Low noise levels
- Shock absorbing
- Hygienic (FDU/USDA Approved)
- Reduced power requirements
- Self-lubricating
- Environmentally friendly
- Recyclable
- Operating temp. between -200 and +95°C
- Increased chain life

Our technical staff can assist with material selection, part design and machining options.



Applications:

- Unit material handling & industrial equipment
- Bulk material handling / Bottling
- Food preparation
- Logging, pulp, paper & printing
- Surface finishing, semi-conductors & pollution control
- Leisure & recreation
- Marine
- Medical
- Transportation
- Water treatment



QUADRANT
ENGINEERING PLASTIC PRODUCTS

CHEMPLAST®

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Property	Unit	Testing Method	TIVAR® Ceram-P	TIVAR® G12	TIVAR® 10-100	Confetti	TIVAR® DS	Ultralene	TIVAR® 88	TIVAR® 88.2 Weldable
Density	g/cm ³	DIN 53479	0.94	0.93	0.93	0.94	0.93	0.93	0.94	0.93
Colour	-	-	Lime Green	Pale Green	White	Multi/Mixed	Bright Yellow	Burgundy	Light Blue	Dark Blue

MECHANICAL PROPERTIES:

Yield Stress	N/mm ²	DIN53455 ISO 527	18+	17+	17+	18+	17+	18+	18+	17+
Notched Impact Strength	mJ/mm	DIN 53453 (Double 15 V notch)	120	200	200	110	130	200	90	130
Shore Hardness	D	DIN 53505	64	63	63	64	63	63	63	63
Dynamic coefficient of friction	Ratio tension to load	Plastic to steel (roughness 2-2.5 µm)	0.09-0.1	0.1-0.12	0.1-0.12	0.14-0.16	0.15	0.1-0.12	0.1-0.12	0.08-0.09
Abrasion Resistance (see note below)	Relative (the lower the better)	Sand Slurry 1200 rpm/24 hours	80 (very good)	98 (good)	100 (good)	125 (fair/good)	90 (very good)	98 (good)	65 (excellent)	95 (good)

NOTE: The sand slurry testing method rotates a sample in quarts slurry for 24 hours at 1200 rpm and measures the volumetric loss. However, this is not necessarily a reflection of wear under low stress sliding abrasion conditions. The lower the figure the better.

THERMAL PROPERTIES:

Working temperature continuous	°C	-	-200 to 80-90	-200 to 80-90	-200 to 80-90	-200 to 80-90	-200 to 80	-200 to 80-90	-200 to 80-90	-200 to 80-90
Working temperature max. short period	°C	-	100	100	100	100	100	100	100	100
Coefficient of linear expansion	°C ⁻¹	DIN 53752	1.8 x 10 ⁻⁴	2 x 10 ⁻⁴	2 x 10 ⁻⁴	2 x 10 ⁻⁴	2 x 10 ⁻⁴	2 x 10 ⁻⁴	1.8 x 10 ⁻⁴	2 x 10 ⁻⁴
Heat conductivity at 20°C	W/°C.m	DIN 52612	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42

NOTE:

While every care has been taken in the compilation of this data based on the tests from authoritative sources and practical experience, no liability can be accepted.



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Engineering Plastics & Products and Solutions for Heat, Wear and Corrosive Applications