



# You inspire ... we materialize

## **Quadrant history:**

The first engineering polymer shapes for machining.

## **Quadrant today:**

The broadest range of engineering polymer shapes allowing the most effective material choice.

## **Quadrant tomorrow:**

New products for new needs, developed by QEPP's global product and application development team.

For over 60 years, the companies that today form Quadrant have been developing new materials to meet changing demands of customers around the world. The innovative, collaborative spirit between our people and our customers has shaped our success and led to the industry's broadest range of engineering plastic shapes for machining. Our investment in innovation will only increase in the years ahead, to support your requirements for higher levels of performance, productivity and value.



# POLYETHYLENE PRODUCTS

## Selection Table

FEATURES PRODUCTS	Mol. weight (*)	Colours	Additives	Sliding properties (coeff. of friction)	Wear Resistance (plastics pin on steel disk)	Abrasion resistance (sand-slurry)	UV-resistance	ESd-properties	Food contact compliant composition (EU & FDA)
TIVAR® DrySlide	9	black	IL + SDA	very good	very good	very good	good	yes	no
TIVAR® TECH	9	grey-black	MoS <sub>2</sub>	good	excellent	very good	moderate	no	no
TIVAR® Oil Filled	9	grey	oil + pigments	very good	very good	very good	moderate	no	yes (FDA only)
TIVAR® SurfaceProtect	5	natural	IL	very good	good	good	moderate	no	yes
TIVAR® ChainLine	5	black	IL/SDA	very good	good	good	good	yes	no
TIVAR® Cestigreen	5	green	SDA + pigments	good	excellent	good	moderate	yes	no
TIVAR® DS	9	yellow, grey	pigments	good	very good	very good	moderate	no	yes (EU only)
TIVAR® Ceram P	9	yellow-green	GB+ pigments	good	excellent	very good	moderate	no	yes (EU only)
TIVAR® SuperPlus	9	grey	IL + pigments + other	very good	excellent	very good	moderate	no	no
TIVAR® Xtended Wear	9	light grey	minerals + pigment	good	excellent	excellent	moderate	no	no
TIVAR® VisiLiner	9	bicoloured	pigments + other	good	excellent	very good	moderate (***)	no (***)	no (***)
TIVAR® H.O.T.	9	white	HS + pigments	good	good	very good	moderate	no	yes
TIVAR® Burnguard	5	black	FR	good	good	moderate	good	yes	no
TIVAR® CleanStat	5	black	SDA	good	good	good	good	yes	yes
TIVAR® 1000 ASTL	9	black	SDA	good	very good	very good	very good	yes	yes (EU only)
TIVAR® 1000 EC	5	black	SDA	good	good	good	very good	yes	yes (EU only)
Borotron® UH	5	natural	boron	moderate	good	moderate	moderate	no	no
Borotron® HM	0.5	natural	boron	moderate	poor	poor	moderate	no	no
TIVAR® 1000	5	nat., green, black, other colours	none or pigments	good	good	good	moderate	no	yes [EU only (**)]
TIVAR® 1000 ESD	5	black	SDA	good	good	good	good	yes	yes (EU only)
TIVAR® 1000 R	5	green, black	pigments	good	moderate	moderate	moderate	no (yes for black)	no
PE 500	0.5	nat., green, black, colours	none or pigments	good	poor	poor	moderate	no	yes [EU only (**)]

(\*): average molecular weight (10<sup>6</sup> g/mol)

(\*\*): this applies only for black and colours

(\*\*\*): depending on the colour of the layers used, this property can be rated differently. Please consult us.

**Abbreviations:** SDA: static dissipative additive; GB: glass beads; IL: internal lubricant; HS: heat stabiliser; FR: flame retardant

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