

> Material Selector

	ACETAL	ACETAL MAX	ACRYLIC	HDPE	NYLON	NYLON G NYLON MAX	PE100	PEEK	PETP	PETP MAX	POLYCARBONATE	POLYPROPYLENE	POLYURETHANE	PTFE	PVC	UHMWPE	UHMWPE ECO	UHMWPE MAX
LOW TEMPERATURE	- 45°C	- 45°C	0°C	-100°C	- 30°C	- 30°C	- 100°C	- 30°C	- 15°C	- 15°C	- 50 °C	0°C	0°C	- 240°C	- 10°C	- 200°C	- 200°C	- 200°C
MAXIMUM TEMPERATURE ¹	90°C	90°C	65°C	80°C	90°C	90°C	80°C	250°C	100°C	100°C	110°C	95°C	90°C	250°C	65°C	80°C	80°C	80°C
ABRASION RESISTANCE ²	AVERAGE	VERY GOOD	POOR	POOR	VERY GOOD	EXCELLENT	AVERAGE	EXCELLENT	EXCELLENT	EXCELLENT	POOR	POOR	GOOD	POOR	POOR	EXCELLENT	EXCELLENT	EXCELLENT
OUTSIDE IN SUNLIGHT ³	NO	NO	YES	NO	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	NO	NO	YES	YES
FOOD CONTACT ⁴	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	YES	NO	YES	NO	YES	NO	NO
MOISTURE ABSORPTION	1%	1%	2%	0%	6,5%	6,4%	0,0%	0,2%	0,5%	0,5%	0,3%	0,1%	1,4%	0,0%	0,2%	0,0%	0,0%	0,0%
LOAD AND SPEED CAPABILITY ⁵	HIGH	VERY HIGH	VERY LOW	VERY LOW	HIGH	VERY HIGH	VERY LOW	VERY HIGH	HIGH	VERY HIGH	VERY LOW	VERY LOW	LOW	LOW	VERY LOW	MEDIUM	MEDIUM	MEDIUM
FRICITION ⁶	MEDIUM	VERY LOW	HIGH	HIGH	MEDIUM	VERY LOW	HIGH	MEDIUM	LOW	VERY LOW	HIGH	HIGH	HIGH	VERY LOW	HIGH	LOW	VERY LOW	LOW
COLOUR ⁷	WHITE BLACK	LIGHT BLUE	CLEAR	WHITE BLACK	OFF WHITE	OFF WHITE YELLOW	BLACK	TAN	WHITE	LIGHT GREY	CLEAR	MILKY WHITE	RED	WHITE	GREY, WHITE	MILKY WHITE	BLUE	BLACK

ROD EX STOCK	6 - 250mm	20-100mm	5 - 100mm	-	6-250mm	50-300mm	-	8-100mm	12-200mm	12-200mm	-	-	12-200mm	5-125mm	6-200mm	10-250mm	-	-
ROD ON REQUEST	260-500mm	-	-	20-300mm	255-500mm	305-500mm	20-200mm	-	-	-	10-180mm	20-700mm	205-600mm	130-500mm	205-350mm	-	20-200mm	20-100mm
SHEET EX STOCK	2-80mm	10 - 50mm	2 - 12mm	3- 30mm	2-100mm	10-80mm	3-30mm	6 -20mm	10-60mm	10-40mm	1-10mm	3-25mm	3-25mm	1-20mm	2-30mm	3-100mm	6-50mm	3-100mm
SHEET ON REQUEST	90-120mm	-	15 - 50mm	35-100mm	110-150mm	90-120mm	35-100mm	25 -100mm	-	-	12-25mm	30-100mm	30-100mm	25-50mm	35-50mm	110-150mm	60-150mm	110-150mm
TUBE EX STOCK	-	-	8- 200mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TUBE ON REQUEST	30-300mm	30-150mm	-	-	50-600mm	50-600mm	-	20 -250mm	20-200mm	20-150mm	10-150mm	25-300mm	25-400mm	25-500mm	25-300mm	50-200mm	-	-
COST	MEDIUM	HIGH	LOW	LOW	MEDIUM	MEDIUM	LOW	HIGH	MEDIUM	HIGH	MEDIUM	LOW	MEDIUM	HIGH	LOW	MEDIUM	MEDIUM	MEDIUM

*1 - some materials are fine at 90°C as long as dry [no steam] check with Kormax. | *2 - rating depends on environment. | *3 - NO - will degrade in less than a year YES - last up to 2yrs, some materials longer. | *4 - Some of the black materials are and are not food grade approved need to check with Kormax. Special grades of some of non approved materials are available for food contact applications. | *5 - At low speed, load can be higher. At high speed, load lot less. Please check with Kormax. | *6 - Please consult Kormax for exact value as it does depend on environment. | *7 - Other colours available for the most materials.

MATERIAL	APPLICATIONS	MATERIAL	APPLICATIONS	MATERIAL	APPLICATIONS	MATERIAL	APPLICATIONS
Acetal	Sheaves Bearings Guide Rails Machine Parts Gears / Sprockets Sliding components	Nylon G	Bearings Gears / Sprockets Chain Tensioners Low Friction Bearing Pads Pivot Bearings	PETP Max	Close Tolerance Bearings Marine Fittings Gears / Sprockets Precision parts Wear parts for food processing equipment Low Friction Bearing Pads	PVC	Chemical resistance parts Water Tanks Pipe fittings & flanges Insulators Electrical boxes lab equipment
Acetal Max	Bearings Rudder Bearings Guide Rails Machine Parts Gears / Sprockets Cams and Ratchets	Nylon Max	Sheaves Bearings Gears / Sprockets Low Friction Bearing Pads Gear Racks	Polycarbonate	Safety Guards Windows Electrical Insulation Security glazing light covers Sight glass tubes	UHMWPE	Under chain wear strips Chute & Bin liners Star wheels Bearings and rollers Guide rails and conveyor curves Conveyor attachments
Acrylic	Safety Guards Windows Outdoor signs Electrical Insulation Shop Fittings and Displays Sight Gauges	PE 100	Chute & Bin Liners Cutting Boards Pipe Fittings & Flanges Improved Chemical Resistance over HDPE Approved material for tank building Exceptional UV resistance	Polypropylene	Cutting Boards Chemical Resistance Parts Electrical Insulation Fume Cupboard Linings Wall linings Storage Vessels	UHMWPE Eco	Under chain wear strips Chute & Bin liners Scraper blades Screw conveyor linings Guide rails Conveyor attachments
HDPE	Chute & Bin Liners Cutting Boards Chemical Resistance Parts Water Tanks Safety Guards Hatch covers	PEEK	Bearings Chemical Resistance Parts Gears / Sprockets Electrical Insulation Wear parts for food processing equipment Seal Components	Polyurethane	Sheaves Drive wheels & rollers Impact bars Suspension bushes Friction pads Gaskets	UHMWPE Max	Under chain wear strips Chute & Bin liners Scraper blades Screw conveyor linings Guide rails Conveyor attachments
Nylon	Sheaves Bearings Cutting Boards Scraper Blades Gears / Sprockets Conveyor Attachments	PETP	Sheaves Bearings Gears / Sprockets Electrical Insulation Wear parts for food processing equipment Valve and Valve bodies	PTFE	Bearings Chemical Resistance Parts Electrical Insulation Scraper blades Seal components & Gaskets washers & valve seats		