



Wear is unlimited...

"Jyoti Cero Products" brings it within limit

**MOTTO : INNOVATE TO PROTECT**

## APPLICATIONS

As an excellent new material, JCR - ULTRA finds its applications successfully in the field of abrasion, self lubrication, impact vibration, corrosion, non-sticking etc.

It's the best material for the substitution of bronze and non-ferro metal, stainless steel, other engineering plastics, rubber & leather etc.

It is commonly used as liners, guides, rollers, mixer paddles, pump impeller, bearing, chain belt guides & wear strips etc.

In material handling systems, JCR - ULTRA liners prevent blocking and sticking of materials, eliminating the need of vibration & clean-out.

In the bottling and canning line of food and drug, it prevents abrasion and wear on cans and bottles, reduces noise, prolongs the life of screw and transportation belt.

**A major industries who has successfully utilizing JCR-ULTRA are SPECIALLY IN**

Steel, Textile, Chemical, Oil field, Mining, Metallurgy, Power Station, Marine, Mechanical, Paper, Farming equipment Food processing, Medical, Ortho Components for Hip & Spine Implants, Packing & Bottling equipment, Transportation etc.



JCR - ULTRA PULLEY & ROLLER



JCR - ULTRA BUSHES



JCR - ULTRA SLIPPER PAD



JCR - ULTRA PRESSURE PAD



JCR - ULTRA CONVEYOR COMPONENTS



JCR - ULTRA TROLLEY WHEELS

## PROPERTIES OF JCR - ULTRA SHEETS / RODS / STRIPS

DESCRIPTIONS	TEST METHOD	UNIT	JCPPL-ULTRA
DENSITY	ISO 1183	g/cm <sup>3</sup>	0.933
MOLECULAR WEIGHT	-	Mil/mol	>5
TENSILE STRENGTH	ISO 527-1	Mpa	>_20
BREAKING STRENGTH	ISO 527-1	Mpa	>_40
ELONGATION AT BREAK	ISO 527-1	%	>350
IMPACT STRENGTH	ISO 179	KJ/m <sup>2</sup>	NB
IMPACT STRENGTH 15° V Notch	ISO 179	KJ/m <sup>2</sup>	>100
HARDNESS AT SHORE-"D" 15 S	ISO 868	-	62
Ball Thrust Hardness 30s	ISO 2039.1	N/mm <sup>2</sup>	38
WEAR RESISTANCE	Sand Slurry	-	100

**M/s Jyoti Cero Rubber**

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## JCR-ULTRA :

This is an Engineering Plastic having low co-efficient of friction with high abrasion resistance and self lubricating properties made from Imported virgin UHMWPE(Ultra High Molecular Weight Polyethylene) powder, are manufactured only from the finest 100% pure virgin materials ie, natural white colour. Only on request the different colours materials are manufactured.

This is highly recommended for Lining of Silo's Bunker's, Chutes because it allows good material flow with minimum caking of solids and powder products. It has Excellent machining properties which enables replacement of plastics & metal machinery parts.

We also produce Rod and Strips from an Special quality UHMWPE Material which is stable and reliable plastic with greatly reduced risk for wear & widely used for **HIP REPLACEMENTS IMPLANTS**, because of its durability and performance, Metal on UHMWPE has been the leading artificial hip and spine component material chosen by surgeons.

## PROPERTIES OF JCR - ULTRA

### IMPACT STRENGTH :

JCR - ULTRA has the highest impact strength of any engineering plastics, even at (-140°C). It is tough together with its superior abrasion and corrosion resistance & has made itself ideally suited for industrial applications in complicate and rough environments.

### LIGHT WEIGHT AND EASILY MACHINABLE :

JCR - ULTRA is lighter than water, weighs approximately 1/8 that of steel, the same part JCR - ULTRA has lower price than steel, needs no maintainance, easy to machine conventionally.

### HIGH RESISTANCE TO WEAR & ABRASION :

JCR - ULTRA 's abrasion resistance beat any plastics even steel.



JCR - ULTRA SHEETS & RODS

### SELF LUBRICATING & LOW COEFFICIENT OF SLIDING FRICTION:

JCR - ULTRA is having self lubricating properties as a bearing even without grease it works better than steel or bronze bearing with grease. Its friction parts need no lubricant, easily maintainable, operate smoothly, have least friction and cause no damage to component, is a superb material for use in wear parts in machinery and equipment.



JCR - ULTRA LINERS

### NOISE & VIBRATION ABSORBING :

JCR - ULTRA has the best impact absorbing property, so it dampens noise and vibration soundly.

### NON-CAKING & STICKING :

JCR - ULTRA 's surface absorption affinity is very feeble materials are difficult to stick. Its water absorption is less than 0.01%, hence it is widely used as an Industrial liners .



JCR - ULTRA LINERS

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