

REF : KPPL/SG/15

SUB.: PLASCON V SEGMENTED SPUR GEAR FOR DRYER

Dear Sir,

We pleased to inform you that we are manufacturing Plascon Segmented Spur Gear for Dryer out of UHMW (Ultra High Molecular Weight) an Engineering Material).

We wish to explain the advantages of Plascon UHMW V Segments over Nylon in detail as per following.

01. Plascon Segments are mounted on C.I.Hub.

Segments are fastened with EN Studs having proper tensile strength.

A. Studs are fixed with locking nuts.

B. After Plascon Segment mounting is complete, we are machining it to get the same ready for teeth cutting.



02. Gear teeth cutting is done with dividing head and involute teeth cutter on Horizontal Milling Machine.

03. INSPECTION: Each and every teeth of the Plascon Segments is checked i.e. Angle of teeth, Pitch etc.

We further mention that in case of Plascon Segmented Gears one can replace segments incase there is any damage to teeth due to accident, this saving cost required for total replacement. Plascon has further advantages than Nylon which you can conclude from the details given below:

		<u>Plascon</u>	<u>Nylon</u>
Tensile Strength	ASTMD 638	6600	11,000-14,000
Tensile Mode of Elasticity	ASTMD 628	2.1x10 PW5	3.5-4.5x10 PW5
Flex Modulus	ASTMD 790B	170000	450000

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- Compared to Nylon UHMW is unbreakable. Usually the tooth of a Nylon Gear are sheared away and broken from the base but such a thing does not happen with UHMW Gears.
- Nylon absorbs around 2% moisture while standing in air at 65% relative humidity. Due to absorption of 2% of moisture there is decline in mechanical properties of Nylon by as much as 35%.
- Relative volumetric wear (experiment carried out : Sand Slurry Method) for Nylon is 160 and that of UHMW is just 70 meaning that Nylon Wears 2.28 times more than UHMW.
- Coefficient of friction of Nylon/Steel is 0.35 – 0.40 while that of UHMW is 0.15 – 0.25 thus UHMW having low coefficient of friction, saves energy.

Due to above excellent properties of Plascon Gears over Nylon our Gears are running very satisfactory in following reputed Paper Mills of India and abroad.

M/S The Central Pulp Mills, Surat
M/S Mukerian Paper Mills, Punjab
M/S Premier Paper Mills Ltd., Pakistan
M/S Sri Bhawani Paper Mills, Raebareilly
M/S Shreyans Industries Ltd., Ahmedgarh, Punjab
M/S Shreyans Industries Ltd., Ropar
M/S Global Boards Ltd., Mumbai
M/S Varindra Agro Chemicals, Sangrur
M/S Damanganga Paper Mills Ltd., Vapi
M/S V. G. Paper & Boards Ltd, Madathukulam and any others.

We are sure that you will also be fully satisfied with the qualitative working performance and durability of our Plascon Gears.

We, therefore, request you to please expedite your valued enquiry along with drawing enable us to send you our most competitive offer for the same.

Thanking you,

Yours Faithfully,
For KBK Plascon Pvt Ltd

Authorised Signatory