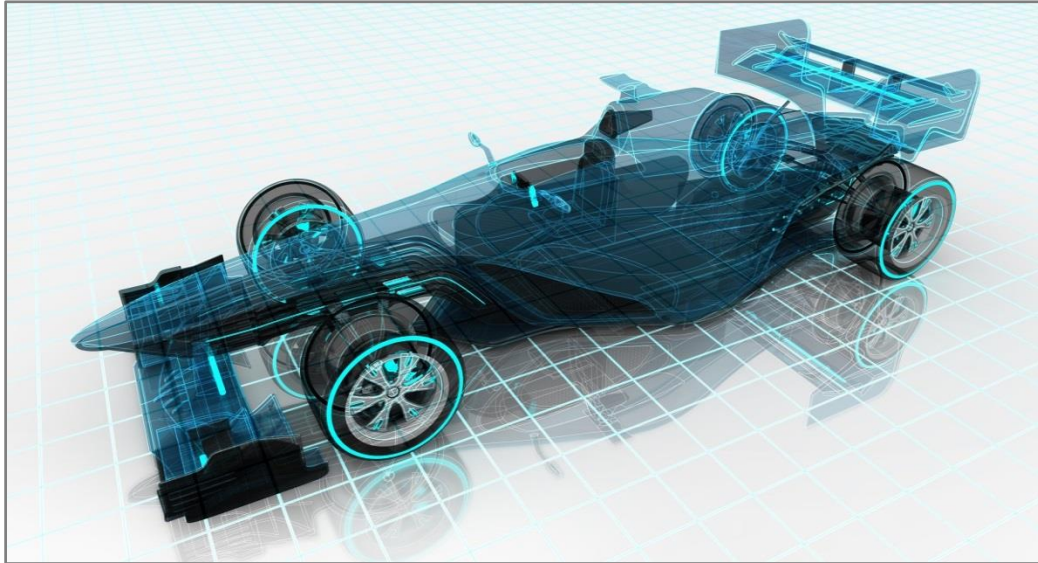


SAINT-GOBAIN SEALS APPLICATION CASE STUDY

Automotive: Case of the “Need for Speed” Transmission



CUSTOMER CRITICAL DIFFERENCE

With a V8 engine, racing cars can easily attain speeds of 200 mph and produce over 850 horsepower. Running an engine at such high rpm creates enormous amount of heat and stress on the moving parts. Our **Meldin® 5055 thrust washer** was the material of choice to solve our customer’s challenge as it showed less than 1/10 the wear experienced by 1018 steel.

CONNECTED APPLICATION

Meldin® 5330 Gerotors: Used in oil and scavaging pumps on Formula 1 racing vehicles and MotoGP motorbikes.

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Critical parts
making THE difference



SEALS

SAINT-GOBAIN

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PRODUCT SOLUTION

Meldin® 5055

AREA

Racing Car Transmission

MATERIAL

PAEK/PEEK Thermoplastic

CRITICAL PART

Thrust Washer

TECHNICAL DETAILS

- Media: Transmission Fluid
- Counter Surface: Case Hardened Steel
- Temperature: 350° F (177°C) Maximum
- Speed: 3.162 ft/in (16m/sec)



BENEFITS AND ADDED VALUE

- Withstands high pressure and speed conditions with minimal deformation
- Self-lubricated and resistant to aggressive fluids

