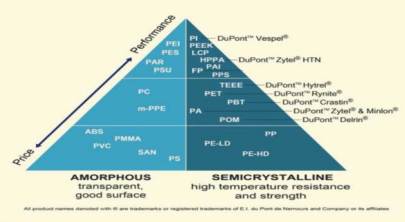
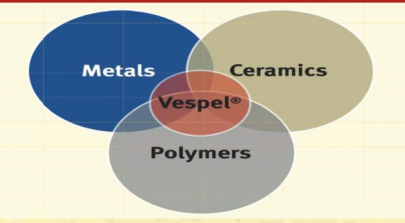


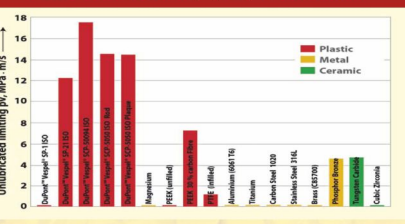
Vespel® is positioned at the top of the polymer performance pyramid



Replacing Metals & Ceramics



Pressure velocity (PV) resistance



Deformation after exposure to 370°C for 6 hours



- Compression Moulded & sintered parts
- No Melting Point
- From Cryogenic upto 288° C with excursions upto 482° C
- Wear and Friction grades
- Excellent Thermal & Electrical Insulation
- Available as parts & shapes
- Easily Machinable

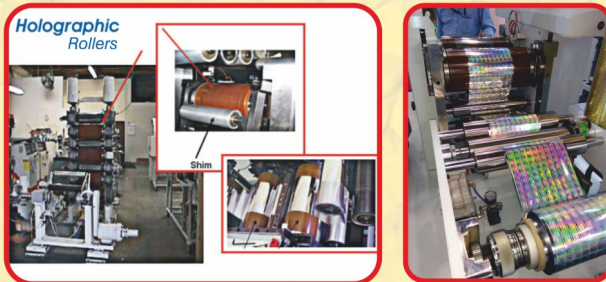
Vespel® for

- Automotive
- Textiles
- Aerospace
- Holography
- Hot Runner Injection Moulding
- Compressors & Valves
- Sci - fi Instruments

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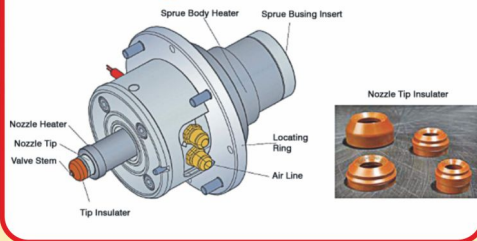
HOLOGRAPHY

- ▶ Better Holographic Brilliance
- ▶ Calendaring Rolls - Holographic Imaging
- ▶ Longer life of Shim and Compliant Roller



HOT RUNNER INJECTION MOULDING

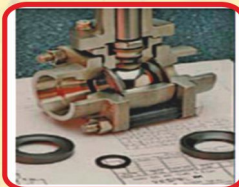
Plastic Molding



- ▶ Excellent Thermal Insulator.
- ▶ Creep Resistance thus maintaining its dimensions under toughest condition.
- ▶ Degradation resistance at high temperatures.
- ▶ Allows for faster colour / Material change times.

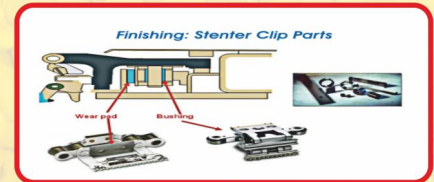
COMPRESSORS & VALVES

- ▶ Excellent Creep resistance, Compliance & Stable Mechanical Properties at elevated temperatures
- ▶ Increase Valve MTBR and better sealing
- ▶ Low coefficient of friction
- ▶ Wide range of temperature capabilities -196° C to 288° C
- ▶ Excursions up to 482° C
- ▶ Does not become brittle at cryogenic temperatures



TEXTILES

- ▶ Low Co-efficient of Friction
- ▶ Maintains High Load-Speed (PV) with no Lubrication
- ▶ High elongation and compressive strength
- ▶ Dimensional stability and Resists Creep
- ▶ Withstand high Mechanical Load
- ▶ Good thermal and Impact resistance
- ▶ Reduced Equipment Vibration and noise
- ▶ Lube free parts for clean textile manufacturing.



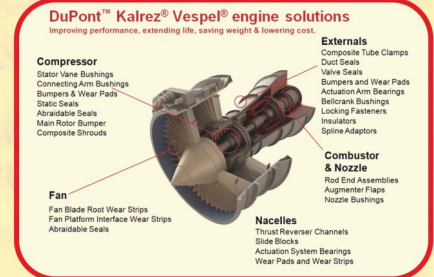
AEROSPACE

Applications

- ▶ Compressor Bushings
- ▶ Bearings
- ▶ Wear Pads
- ▶ Washers
- ▶ Valve Seats

Product Benefits

- ▶ Low wear
- ▶ High Heat Resistance
- ▶ Toughness
- ▶ Inherent Lubricity
- ▶ Easy Machining



AUTOMOTIVE

- ▶ Fuel pump bearings, seals and valves
- ▶ Transmission Seal rings & thrust washers
- ▶ Bushings and Seals for fuel injectors
- ▶ EGR Valve & Turbo charger bushings
- ▶ LPG carburetor Seals
- ▶ Brake pad wear sensors
- ▶ Small electric motor bearings and thrust devices
- ▶ Seals, Washers and Valves for axles and Hydraulic systems
- ▶ Suspension and Shock absorber components
- ▶ Piston rings

