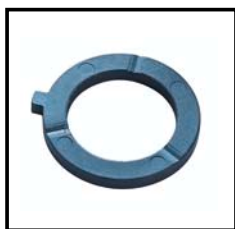


## TYPICAL PROPERTIES

# VESPEL® TP- 2875



### THERMOPLASTIC PARTS FOR LUBRICATED APPLICATIONS

Vespel® TP-2875 is a blend of polyimide and high-temperature thermoplastic carriers, designed for lubricated wear applications. Its combination of mechanical properties, high thermal resistance and low wear makes this material particularly well suited for lubricated wear applications at PVs up to 17.5 MPa m/s (500,000 fpm-psi).

And as part of the Vespel® parts and shapes product line, injection-molded Vespel® TP-2875 parts comply with the highest quality standards in the industry.

MECHANICAL		TEST METHOD	SI UNITS	ENGLISH UNITS
TENSILE STRENGTH	23°C/73°F	ASTM D-638	107 MPa	15,500 psi
ELONGATION AT BREAK	23°C/73°F	ASTM D-638	2.8%	2.8%
FLEXURAL STRENGTH	23°C/73°F	ASTM D-790	96 MPa	13,900 psi
FLEXURAL MODULUS	23°C/73°F	ASTM D-790	6.2 GPa	900,000 psi
NOTCHED IZOD 3.175 mm/1/8 in.	23°C/73°F	ASTM D-256	80 J/m	1.5 ft. lb./in.
HARDNESS, ROCKWELL M		ASTM D-785	37	37

THERMAL	TEST METHOD	SI UNITS	ENGLISH UNITS
HDT @ 1.8 MPa (264 psi)	ASTM D-648	262°C	504°F
CTE (23-150°C/73-302°F) FLOW DIRECTION	ASTM E-228	2.5x10 <sup>-5</sup> cm/cm/°C	1.4x10 <sup>-5</sup> in./in./°F
CTE (23-150°C/73-302°F) TRANSVERSE DIRECTION	ASTM E-228	6.2x10 <sup>-5</sup> cm/cm/°C	3.4x10 <sup>-5</sup> in./in./°F

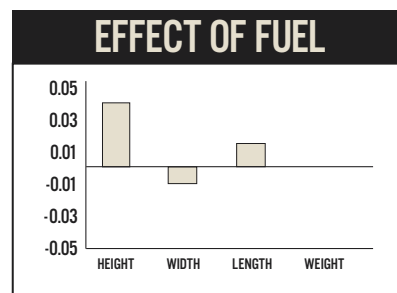
WEAR AND FRICTION	TEST METHOD	SI UNITS	ENGLISH UNITS
PV LIMIT (LUBRICATED)	DuPont	17.5 MPa m/s	500,000 psi-fpm
COEFFICIENT OF FRICTION	DuPont	0.09	0.09

ELECTRICAL PROPERTIES	TEST METHOD	SI UNITS	ENGLISH UNITS
DIELECTRIC CONSTANT @ 100Hz	ASTM D-150	6.62	6.62
DIELECTRIC CONSTANT @ 1Hz	ASTM D-150	6.61	6.61

OTHER PROPERTIES	TEST METHOD	SI UNITS	ENGLISH UNITS
SPECIFIC GRAVITY	ASTM D-792	1.51	1.51

FUEL TEST DATA	
DIMENSION	CHANGE
HEIGHT	0.03%
LENGTH	0.01%
WIDTH	-0.01%
WEIGHT	0.00%

FAM B Fuel Immersion (1 week, 65°C/150°F).



FAM B Fuel Immersion (1 week, 65°C/150°F).

## For more information about DuPont™ Vespel®:

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Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement."