DATA SHEET

VESPEL

PHYSICAL	
SPECIFIC GRAVITY	1.36 - 1.43
WATER ABSORPTION, 24 hr. (%)	.24
MECHANICAL	
TENSILE	
Strength, Yield (10^3 psi) @ 73°F.	10.5 - 17.1
Elongation, Ultimate (%) @ 73°F.	8 - 10
Modulus, Yield (10^3 psi) @ 73°F.	300
FLEXURAL	
Strength, (10^3 psi) @ 73°F.	19 - 28.8
Modulus, Yield (10^3 psi) @ 73°F.	450 - 500
COMPRESSIVE STRENGTH	
2% Offset, (10^3 psi)	30 - 40
IMPACT STRENGTH	
Izod, Notched (ft. - lb./in.) @ 73°F.	1.5
HARDNESS	M97 - 99
COEFFICIENT OF STATIC FRICTION	
Against self	
Against steel	
THERMAL	
CONDUCTIVITY	
(BTU/hr/sq. ft./Degree F./in.)	2.3 - 2.6
COEFF. OF THERMAL EXPANSION	
(10^{-5}/Degree F.)	2.5 - 2.8
SPECIFIC HEAT	
(BTU/lb./Degree F.)	
HEAT DEFLECTION TEMP.	
(Degree F.)	
At 66 psi.	
At 264 psi	530 - 680
MAX. CONTINUOUS TEMP. (F.°)	500 - 800
ELECTRICAL	
VOLUME RESISTIVITY	
(Ohm/cm)	$> 10^{15}$
DIELECTRIC STRENGTH	
(V/Mil)	310 - 560
DIELECTRIC CONSTANT	
At 60 HZ	3.6 - 4.1
At 1 MHZ	3.5 - 3.9
DISSIPATION FACTOR	
At 60 HZ	.002 - .003
At 1 MHZ	.004 - .011
ARC RESISTANCE (seconds)	152 - 230

PPC
Polymer Plastics Company, LC

550 Mallory Way • Carson City, NV 89701
(775) 283-4400 • (800) 475-2214
www.polymerplastics.com