

# NJSSPI-1002-2参数表 (对标美国杜邦VESPEL-SP1)

## PI PARAMETER TABLE

机械性能 Mechanical properties		温度 Temperature	ASTM	单位 Unit	测得值 Measured value
拉伸强度 Tensile strength		浸没于液氮中30min (In liquid nitrogen) -100°C 23°C 100°C 150°C 200°C 260°C	D-1708	MPa	45.1
					62.6
					92
					84
					70.5
					57.8
断裂伸长率 Elongation at break		42.1			
		浸没于液氮中30min (In liquid nitrogen) -100°C 23°C 100°C 150°C 200°C 260°C	D-1708	%	7.2
					9.5
					12.5
					23.5
					32.6
弯曲强度 Bending strength					30.2
		浸没于液氮中30min (In liquid nitrogen) -100°C 23°C 100°C 150°C 200°C 260°C	D-790	MPa	25.6
					62.7
					77.3
					112
					106
弯曲模量 Flexural modulus					100.2
		浸没于液氮中30min (In liquid nitrogen) -100°C 23°C 100°C 150°C 200°C 260°C	D-790	MPa	77.6
					57.6
					1667
					2261
					2976
压缩强度 Compressive strength		2543			
		10%	D-695	MPa	2230
		23°C			2080
					1763.8
压缩模量 Compression modulus		8.96			
缺口冲击强度 Notch impact strength		111			
摩擦磨损 Friction and wear		1930			
磨擦系数, PV = 0.875 MPa·m/s Coefficient of friction		72			
热性能 Thermal performance					
热失重5% Thermal weight loss 5%			TGA, N2, 20°C/min	°C	572
熔点及tg点 Melting point and tg point					
		50–450°C	DSC, N2, 20°C/min	°C	无
线性热膨胀系数 Linear thermal expansion					
		23°C–260°C	D-696	μm/m/°C	52
导热系数 Thermal conductivity			E-1461	W/(m·K)	0.358
挠曲温度, 264 psi Deflection temperature			D-648	°C	330
电学性能 Electrical property					
介电常数 Dielectric constant	10 <sup>3</sup> Hz				3.56
	10 <sup>6</sup> Hz	23°C	D-150		3.45
耗散因子10 <sup>6</sup> Hz Dissipation factor			D-150		0.0035
体积电阻率 Volume resistivity		23°C	D-257	Ω·m	>10 <sup>12</sup>
表面电阻率 Surface resistivity		23°C	D-257	Ω	>10 <sup>12</sup>
其他性能 Other performance					
吸水率 24h Water absorption rate		23°C	D-570	%	0.21
比重 Proportion		-	D-792	-	1.43
氧指数 Oxygen index		-	D-2863	%	52

备注：此数据并非保证值，而是典型值。 Note: This data is not a guaranteed value, but a typical value.