

Z-200-E5

- **Out line: Z-200-E5 is un-filled super tough PPS which has excellent flexibility and toughness comparing to FZ-2100.**
- **Color: Gray**

Engineering Properties of Z-200-E5

Properties	Test Method	Unit	Z-200-E5
General Information			Un reinforced Super tough
<ASTM>			
Physical			
Specific gravity	D-792	-	1.32
Water absorption, 23deg. /24Hrs. /in water	D-570	Wt. %	0.03
Mold shrinkage, MD /TD ^a	D-955	%	1.3/1.5
Mechanical			
Tensile strength	D-638	MPa	70
Tensile modulus	D-638	MPa	3100
Tensile elongation at break	D-638	%	50
Poisson's ratio	-	-	0.38
Flexural strength	D-790	MPa	110
Flexural modulus	D-790	MPa	2900
Flexural elongation at break	D-790	%	>50
Izod impact strength notched / un notched	D-256	J/m	80/2000
Compressive strength	D-695	MPa	100
Rockwell hardness, R/M	D-785	-	118/ —
Coefficient of friction ^b , static /dynamic	-	-	—
Thermal			
Distortion temp. of under load, 1.82MPa	D-648	°C	105/160 ^d
Coefficient of thermal expansion, -30 to 100°C	D-696	m/mK	4.5x10 ⁻⁵
UL Flammability ^c , t~1.6mm	UL-94	-	V-0 ^e
Electrical			
Dielectric strength, t=1.6mm	D-149	kv/mm	16
Dielectric constant, 1MHz	D-150	-	3.4
Dissipation factor, 1MHz	D-150	-	0.002
Comparative tracking index (CTI)	D-3638	Volt	—
Arc resistance	D-495	sec.	—
Volume resistibility	D-257	Ohm.cm	10 ¹⁶
Process Conditions			
Cylinder temperature	-	°C	290-320
Mold temperature	-	°C	120-150

a: MD; Mold direction, TD; Transverse direction, b: P=150KPa, V=0.3m/s, PPS vs. carbon steel,
c: UL file No. E53829, d: Fiber stress 0.46MPa, e: Own data



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