

25SPE(GPPS Injection Grade)



Item	Test method	Test Condition	Unit	Value
PHYSICAL				
Melt Index	ASTM D1238	200°C/5kg 220°C/10kg 230°C/3.8kg	g/10min g/10min g/10min	2.9
Specific Gravity	ASTM D792		-	1.05
Mold Shrinkage	ASTM D955		%	0.4~0.8
MECHANICAL				
Tensile Strength	ASTM D638	50mm/min	kg/cm ² MPa lb/in ²	490 48 7,000
Tensile Modulus	ASTM D638	50mm/min	kg/cm ² MPa lb/in ²	29,400 2,880 417,000
Elongation at Yield	ASTM D638	50mm/min	%	-
Elongation at Break	ASTM D638	50mm/min	%	>4
Flexural Strength	ASTM D790	50mm/min	kg/cm ² MPa lb/in ²	1000 98 14,200
Flexural Modulus	ASTM D790	15mm/min	kg/cm ² MPa lb/in ²	33,300 3,260 473,000
Izod Impact Strength(notched)	ASTM D256	1/4", 23°C	kg.cm/cm J/m ft-lb/in	1.2 12 0.2
		1/4", -30°C	kg.cm/cm J/m ft-lb/in	1 10 0.2
		1/8", 23°C	kg.cm/cm J/m ft-lb/in	1.6 16 0.3
		1/8", -30°C	kg.cm/cm J/m ft-lb/in	1 10 0.2
Rockwell Hardness	ASTM D785	R-scale		120
THERMAL				
Heat Deflection Temp	ASTM D648	1/4", 18.56kg/cm ² (annealed)	°C °F	97 207
		1/4", 18.56kg/cm ² (unannealed)	°C °F	87 189
		1/4", 4.6kg/cm ² (annealed)	°C °F	98 208
		1/4", 4.6kg/cm ² (unannealed)	°C °F	89 192
Vicat Softening Temp	ASTM D1525	1kg/120°C/h	°C °F	103 217
		5kg/50°C/h	°C °F	98 208
ELECTRICAL				
HWI HAI HVTR Arc Resistance CTI	UL 746A ASTM D495 UL 746A	PLC Code		
FLAMMABILITY				
Flammability	UL 94	1/8" 1/10" 1/16"	class	HB HB
	IEC 707	1/8" 1/16"	mm/min	FH3-28
CHARACTERISTICS				High strength, extrusion

*Note : 1)The values of properties in the above table have been obtained by the test pieces(natural color) manufactured under certain of injection.

2)The listed values should be used for referential purposed only.