

80HF(SAN Injection Grade)



Item	Test method	Test Condition	Unit	Value
PHYSICAL				
Melt Index	ASTM D1238	200°C/5kg	g/10min	2.6
		220°C/10kg	g/10min	29
		230°C/3.8kg	g/10min	10.3
Specific Gravity	ASTM D792		-	1.07
Mold Shrinkage	ASTM D955		%	0.2-0.6
MECHANICAL				
Tensile Strength	ASTM D638	50mm/min	kg/cm ²	720
			MPa	71
			lb/in ²	10,200
Tensile Modulus	ASTM D638	50mm/min	kg/cm ²	31,400
			MPa	3,080
			lb/in ²	446,000
Elongation at Yield	ASTM D638	50mm/min	%	-
Elongation at Break	ASTM D638	50mm/min	%	>6
Flexural Strength	ASTM D790	50mm/min	kg/cm ²	1,150
			MPa	113
			lb/in ²	16,300
Flexural Modulus	ASTM D790	15mm/min	kg/cm ²	37,300
			MPa	3,660
			lb/in ²	530,000
Izod Impact Strength(notched)	ASTM D256	1/4", 23°C	kg cm/cm	1.2
			J/m	12
			ft-lb/in	0.2
			kg cm/cm	1
		1/4", -30°C	J/m	10
			ft-lb/in	0.2
			kg cm/cm	1.6
			J/m	16
1/8", 23°C	ft-lb/in	0.3		
	kg cm/cm	1		
	J/m	10		
	ft-lb/in	0.2		
Rockwell Hardness	ASTM D785	R-scale		123
THERMAL				
Heat Deflection Temp	ASTM D648	1/4", 18.56kg/cm ² (annealed)	°C	97
			°F	207
		1/4", 18.56kg/cm ² (unannealed)	°C	89
			°F	192
		1/4", 4.6kg/cm ² (annealed)	°C	100
°F	212			
Vicat Softening Temp	ASTM D1525	1kg/120°C/h	°C	105
			°F	221
		5kg/50°C/h	°C	99
			°F	210
ELECTRICAL				
HWI	UL 746A	PLC Code		3
HAI			0	
HVTR				0
Arc Resistance	ASTM D495			5
CTI	UL 746A			1
FLAMMABILITY				
Flammability	UL 94	1/8"	class	HB
		1/10"		HB
	IEC 707	1/16"	mm/min	
		1/8"		
		1/16"		
CHARACTERISTIC General Purpose				

*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.