

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.