

SAN 80HF

Injection Molding

Description

High Transparency, Heat Resistance
Chemical Resistance

Application

Refrigerator Sleeves, Miscellaneous

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.07
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.4~0.7
Melt Flow Rate	200 °C/5kg	ASTM D1238(G)	g/10min	3
	220 °C/10kg	-	g/10min	29
	230 °C/3.8kg	ASTM D1238(I)	g/10min	10
Mechanical				
Tensile Strength, 3.2mm @ Yield	50mm/min	ASTM D638	kg/cm ²	750
Tensile Elongation, 3.2mm @ Yield	50mm/min	ASTM D638	%	-
	50mm/min		%	6
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	kg/cm ²	31,700
Flexural Strength, 3.2mm	15mm/min	ASTM D790	kg/cm ²	1,200
Flexural Modulus, 3.2mm	15mm/min	ASTM D790	kg/cm ²	37,500
IZOD Impact Strength, 6.4mm (Notched)	23 °C	ASTM D256	kg·cm/cm	1
	-30 °C		kg·cm/cm	1
IZOD Impact Strength, 3.2mm (Notched)	23 °C	ASTM D256	kg·cm/cm	-
	-30 °C		kg·cm/cm	-
Rockwell Hardness	R-Scale	ASTM D785	-	123
Thermal				
Heat Deflection Temperature, 6.4mm (Unannealed)	18.6kg	ASTM D648	°C	90
	4.6kg		°C	-
Vicat Softening Temperature	5kg, 50 °C/h	ASTM D1525	°C	100
Flammability	1.6mm	UL94	class	HB
	2.5mm		class	-
	3.2mm		class	HB
Relative Temperature Index		UL 746B		
	Electrical		°C	50
	Mechanical with Impact		°C	50
Mechanical without Impact		°C	50	

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Values given should not be interpreted as specification and not be used for part or tool design.

All properties, except melt flow rate are measured on injection moulded specimens and after 48 hours storage at 23°C, 50% relative humidity.