



# KUMHO SAN

Styrene Acrylonitrile

*beyond*  
the best

KUMHO PETROCHEMICAL

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As copolymers of styrene and acrylonitrile, Kumho SAN has excellent chemical resistance, transparency, heat resistance, processability and mechanical properties. Kumho SAN is suitable for use in electric and electronic equipments, office applications, automobile parts, electric fans, disposable lighters and various containers. Kumho SAN has various grades of high flow, high transparency, high heat resistance, high rigidity and high chemical resistance. Grades are classified in accordance with processing scheme, such as composition and molecular weight of styrene and acrylonitrile.



## Application

Food and cosmetic containers, clear containers, small appliances, electrical and electronic components, lighter cases, etc.

## Precautions for handling



- 1 Keep away from fire : Styrene-acrylonitrile copolymer is flammable.
- 2 Wear protective gear when handling. San produces toxic fumes, such as carbon monoxide, when burned or heated.
- 3 If spilled, replace in its container, and if skin or eye contact occurs, wash off with water.
- 4 In case of fire, wear protective gear including a gas mask, since toxic fumes, such as carbon monoxide, are produced when SAN is burned.

## Physical properties

Grade	Characteristics	Applications	Tensile Strength (kg/cm <sup>2</sup> )	Flexural Strength (kg/cm <sup>2</sup> )	Heat Distortion Temp.(°C)	Melt Flow Index(g/10min)			
			23°C	23°C	18.6kg/cm <sup>2</sup>	200°C, 5.0kg	200°C, 10.0kg	230°C, 3.8kg	
Compounding	SAN 300N A	High flow	710	950	92	6	-	21	
	SAN 320N A	Super high flow	580	700	92	11	-	44	
	SAN 300N H	High molecular weight	780	1050	91	0.9	-	3.7	
	SAN 326N A	High flow	690	950	91	6	-	21	
	SAN 340P I	Heat resistance	740	760	96	1.5	-	4.5	
	SAN 350N A	High strength	780	1050	93	3.3	-	11	
	SAN 350N HM	Chemical resistance, High strength	800	1100	94	1.3	-	5.5	
	SAN 350N F	Chemical resistance, High strength	680	810	91	7.3	-	28	
	APH-1550F	Super high booster	-	-	122	-	-	2.1	
	HSAN 600N A	Heat booster	Increasing Heat-Resistance by ABS Compounding	650	950	101	-	-	7
Injection Molding	SAN 310N TR	High strength, High transparency	Hanger, Mixer, Pitcher	650	900	90	-	26	10
	SAN 310N TRE	High strength, High transparency	Hanger, Mixer, Pitcher (Reducing residual monomer)	650	900	90	-	26	10
	SAN 310C TR	High flow, High transparency	Cosmetic container, Mixer, Transparent container	620	850	90	-	52	20
	SAN 335N T	High transparency, Blue tint & ice	Cups, Water tank for humidifier, Mixer, Juicer, Pencil case, Office applications, Stereo dust cover, Cassette tape case	690	1050	92	-	23	9
	SAN 330N I	High strength, Blue Ice	Sunvisor, Blower fan, Office applications like case for lead of sharp-pointed pencil	670	950	91	-	21	8
	SAN 330N EF	High strength	Mixer, Cosmetic, Container, Trans parent container	680	950	91	-	21	8
	SAN 340N EF	High strength	Mixer, Container	720	1055	93	-	10	4
	SAN 350N HW	Chemical resistance, Super high strength	Disposable lighter, Electric fan, Electronic parts	790	1000	94	1.4	15	6
	SAN 350C HW	Chemical resistance, Super high strength		800	1000	94	1.4	15	6
	SAN EF 335	PCR, High strength, High transparency	Cosmetic container etc. (PCR Product)	710	-	92	-	-	19



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