

Kumho SAN SAN 310TR

Styrene Acrylonitrile

Korea Kumho Petrochemical Co., Ltd.

Message:

Features: High transparency, High toughness

Applications: Hanger, Mixer, Pitcher

General Information			
UL YellowCard	E65424-101036142		
Features	Good toughness		
Uses	Kitchen utensils		
RoHS Compliance	RoHS compliance		
UL File Number	E65424		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	3.0	g/10 min	ASTM D1238
230°C/3.8 kg	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 - 0.60	%	ASTM D955
Water Absorption (Equilibrium)	0.30	%	ASTM D570
Mooney Viscosity ¹	55 - 65	MU	ASTM D1646
Ash Content	0.80	%	ASTM D5667
Volatile Matter	0.50	%	ASTM D5668
Bound AN	39 - 43	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	83		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	64.7	MPa	ASTM D638
Tensile Elongation (Yield)	4.5	%	ASTM D638
Flexural Modulus	3350	MPa	ASTM D790
Flexural Strength (Yield)	93.2	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (200% Strain)	11.8 - 17.7	MPa	ASTM D412
Tensile Strength (Break)	21.6	MPa	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	15	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	107	°C	ASTM D1525 ²

Flammability	Nominal Value	Test Method
Flame Rating (1.60 mm)	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature	75.0 - 85.0	°C
Drying Time	2.0 - 4.0	hr
Rear Temperature	170 - 190	°C
Middle Temperature	180 - 200	°C
Front Temperature	190 - 210	°C
Nozzle Temperature	190 - 220	°C
Mold Temperature	40.0 - 70.0	°C
Injection instructions		
Injection Hopper Throat: 45 °C		
NOTE		
1.	Raw, ML1+4 at 100°C	
2.	速率 A (50°C/h), 压力1 (10N)	

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