

TAIRISAN® NX3200

 Formosa Chemicals & Fibre Corporation - *Styrene Acrylonitrile*

General Information

Product Description

Special Grade

Features: High heat, Chemical resistance

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Features	• Chemical Resistant • High Heat Resistance
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
UL File Number	• E162823

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.06		ASTM D792
Density (73°F)	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	1.5	g/10 min	
220°C/10.0 kg	15	g/10 min	
Melt Mass-Flow Rate (MFR)			ISO 1133
200°C/5.0 kg	1.5	g/10 min	
220°C/10.0 kg	15	g/10 min	
Molding Shrinkage - Flow (0.126 in)	4.0E-3 to 7.0E-3	in/in	ASTM D955
Molding Shrinkage (0.126 in)	0.40 to 0.70	%	ISO 2577
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (73°F)	11400	psi	ASTM D638
Tensile Stress (73°F)	11900	psi	ISO 527-2/50
Flexural Modulus ⁴ (73°F)	526000	psi	ASTM D790
Flexural Modulus ⁵ (73°F)	522000	psi	ISO 178
Flexural Strength ⁴ (73°F)	17100	psi	ASTM D790
Flexural Stress ⁵ (73°F)	17100	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.250 in)	0.33	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 73°F)	79		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	79		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁶ (264 psi, Unannealed, 0.250 in)	205	°F	ASTM D648
Deflection Temperature Under Load ⁶ (264 psi, Annealed, 0.157 in)	217	°F	ISO 75-2/A
Vicat Softening Temperature	216	°F	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0	hr



Nozzle Temperature	410 to 482 °F
Processing (Melt) Temp	410 to 482 °F
Mold Temperature	122 to 158 °F
Injection Pressure	9960 to 17800 psi

Notes

¹ Typical properties: these are not to be construed as specifications.

² 23°C

³ 2.0 in/min

⁴ 0.59 in/min

⁵ 0.079 in/min

⁶ 120°C/h

