

# Shinko-Lac® ABS 3302

Acrylonitrile Butadiene Styrene

Mitsubishi Rayon America Inc.

## Message:

Shinko-Lac ABS 3302 is a high heat resistant grade of ABS that also features good processability and excellent mechanical properties. Typical applications of 3302 include car stereo speaker boxes, vacuum bottle pots and automotive console boxes.

General Information			
Features	Good dimensional stability		
	Rigidity, high		
	Highlight		
	High strength		
	Impact resistance, good		
	Weldable		
	Workability, good		
	Sprayable		
	Machinable		
	Good chemical resistance		
	Heat resistance, high		
	Good toughness		
	Good appearance		
	Non-toxic		
	High hardness		
Uses	Application in Automobile Field		
UL File Number	E54695		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Calendering		
	Vacuum forming		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	0.35	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.55	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2350	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	46.1	MPa	ASTM D638
Flexural Modulus (23°C, 6.35 mm)	2450	MPa	ASTM D790
Flexural Strength (Yield, 23°C, 6.35 mm)	71.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 6.35 mm	49	J/m	ASTM D256
0°C, 6.35 mm	98	J/m	ASTM D256
23°C, 6.35 mm	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	100	°C	ASTM D648
CLTE - Flow	8.5E-5	cm/cm/°C	ASTM D696
Specific Heat	1670	J/kg/°C	ASTM C351
Thermal Conductivity	0.21	W/m/K	ASTM C177
Flammability	Nominal Value		Test Method
Flame Rating (NC)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	85.0 - 90.0	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	200 - 250	°C	
Middle Temperature	200 - 250	°C	
Front Temperature	200 - 250	°C	
Mold Temperature	40.0 - 80.0	°C	
Injection Pressure	68.6 - 108	MPa	
Injection instructions			

Higher mold temperature provides a product with excellent surface finish and less residual stress.

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#### Recommended distributors for this material

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