Shinko-Lac® ABS 3001MH

Acrylonitrile Butadiene Styrene

Mitsubishi Rayon America Inc.

Message:

Shinko-Lac ABS 3001MH is a plating grade of ABS that is especially designed for electro plating of injection molding combined with very good mechanical, etching and thermal cycle properties.
Typical applications of 3001MH include cosmetic compacts, fishing reel components, vacuum bottles and clock accessories.

General Information	
Features	Good dimensional stability
	Rigidity, high
	Highlight
	High strength
	Impact resistance, good
	Electroplateable
	Weldable
	Workability, good
	Sprayable
	Machinable
	Good chemical resistance
	Good toughness
	Good appearance
	Non-toxic
	High hardness
Uses	Electrical/Electronic Applications
	Bottle
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/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.7	g/10 min	ASTM D1238

Molding Shrinkage - Flow	0.50	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2450	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	41.2	MPa	ASTM D638
Flexural Modulus (23°C, 6.35 mm)	2500	MPa	ASTM D790
Flexural Strength (Yield, 23°C, 6.35 mm)	68.6	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°C, 6.35 mm	59	J/m	ASTM D256
0°C, 6.35 mm	150	J/m	ASTM D256
23°C, 6.35 mm	200	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	92.0	°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	80.0 - 85.0	°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 Rate	Slow		

Injection instructions

Injection rate should be set as slow as possible.

Recommended distributors for this material

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