Shinko-Lac® ABS 1001

Acrylonitrile Butadiene Styrene

Mitsubishi Rayon America Inc.

Message:

Shinko-Lac ABS 1001 is a standard grade of ABS that features medium impact resistance and a high modulus. 1001 also features an excellent balance of rigidity, strength, processability and glossiness.
Typical applications of 1001 include camera parts, stationery goods, copying machine, sewing machine, tape recorder and radio housings.

General Information	
Features	Good dimensional stability Rigidity, high Highlight High strength Impact resistance, good Weldable Workability, good Sprayable Machinable Good chemical resistance Good toughness Good appearance Non-toxic High hardness
Uses	Electrical/Electronic Applications Business equipment Shell
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)	2.2	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)	112		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2550	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	48.1	MPa	ASTM D638
Flexural Modulus (23°C, 6.35 mm)	2650	MPa	ASTM D790
Flexural Strength (Yield, 23°C, 6.35 mm)	76.5	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	140	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	190 - 250	°C	
Middle Temperature	190 - 250	°C	
Front Temperature	190 - 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.

Recommended distributors for this material

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