Shinko-Lac® ABS GH-8

Acrylonitrile Butadiene Styrene

Mitsubishi Rayon America Inc.

Message:

Shinko-Lac ABS GH-8 is a standard grade of ABS that features ultra-high impact resistance along with an excellent balance of rigidity, strength, processability and glossiness.
Typical applications of GH-8 include shoe heels, safety helmets and air conditioner accessories.

General Information	
Features	Ultra-high impact resistance
	Good dimensional stability
	Rigidity, high
	Highlight
	High strength
	Weldable
	Workability, good
	Sprayable
	Machinable
	Good chemical resistance
	Good toughness
	Good appearance
	Non-toxic
	High hardness
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	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.2	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)	94		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1860	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	35.3	MPa	ASTM D638
Flexural Modulus (23°C, 6.35 mm)	1860	MPa	ASTM D790
Flexural Strength (Yield, 23°C, 6.35 mm)	53.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°C, 6.35 mm	150	J/m	ASTM D256
0°C, 6.35 mm	280	J/m	ASTM D256
23°C, 6.35 mm	370	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	89.0	°C	ASTM D648
CLTE - Flow	9.5E-5	cm/cm/°C	ASTM D696
Specific Heat	1670	J/kg/°C	ASTM C351
Thermal Conductivity	0.21	W/m/K	ASTM C177
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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