Shinko-Lac® ABS TR-5

Acrylonitrile Butadiene Styrene

Mitsubishi Rayon America Inc.

Message:

Shinko-Lac ABS TR-5 is a high heat resistant grade of ABS that also features good processability and excellent mechanical properties. Typical applications of TR-5 include fluorescent lamp covers, hair dryer components and automotive lamp housings.

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	Electrical/Electronic Applications				
	Application in Automobile Field				
	Illumination diffuser				
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	1.06	g/cm³	ASTM D792		

Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	0.15	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)	45.1	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	29	J/m	ASTM D256
0°C, 6.35 mm	69	J/m	ASTM D256
23°C, 6.35 mm	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	105	°C	ASTM D648
CLTE - Flow	8.0E-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)	НВ		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
brying remperature	85.0 - 90.0	°C	
Drying Time	85.0 - 90.0 2.0 - 4.0	°C hr	
Drying Time			
Drying Time Suggested Max Moisture	2.0 - 4.0	hr	
Drying Time Suggested Max Moisture Rear Temperature	2.0 - 4.0 0.10	hr %	
Drying Time Suggested Max Moisture Rear Temperature Middle Temperature	2.0 - 4.0 0.10 200 - 250	hr % °C	
	2.0 - 4.0 0.10 200 - 250 200 - 250	hr % °C °C	

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

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