Shinko-Lac® ABS VP-3

Acrylonitrile Butadiene Styrene

Mitsubishi Rayon America Inc.

Message:

Shinko-Lac ABS VP-3 is a flame retardant grade that offers excellent flame retardant characteristics to products along with good thermal stability. Good flow property offers easy processing especially for large and thin products.
Typical applications of VP-3 include TV and computer housings.

General Information	
Additive	Flame retardancy
Features	Good dimensional stability Rigidity, high Highlight High strength Impact resistance, good Weldable Workability, good Sprayable Machinable Good chemical resistance Thermal stability, good Good toughness Good appearance Non-toxic High hardness Flame retardancy
Uses	Electrical housing Business equipment
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	1.19	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	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)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2060	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	42.2	MPa	ASTM D638
Flexural Modulus (23°C, 6.35 mm)	2350	MPa	ASTM D790
Flexural Strength (Yield, 23°C, 6.35 mm)	62.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	88.0	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.59 mm, NC	V-0		UL 94
3.18 mm, NC	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 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.

Recommended distributors for this material

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