Shinko-Lac® ABS VM-1

Acrylonitrile Butadiene Styrene

Mitsubishi Rayon America Inc.

Message:

Shinko-Lac ABS VM-1 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. VM-1 also exhibits excellent plating characteristics.
Typical applications of VM-1 include electrical/electronic applications.

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

Molding Shrinkage - Flow	0.50	%	ASTM D955
Water Absorption (24 hr)	0.22	%	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)	2450	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	40.2	MPa	ASTM D638
Flexural Modulus (23°C, 6.35 mm)	2550	MPa	ASTM D790
Flexural Strength (Yield, 23°C, 6.35 mm)	64.7	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (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)	80.0	°C	ASTM D648
Flammability	**Nominal Value**		**Test Method**
Flame Rating			UL 94
1.59 mm, NC	V-2		UL 94
3.18 mm, NC	V-2		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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


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