

Shinko-Lac® ABS SE-1

Acrylonitrile Butadiene Styrene

Mitsubishi Rayon America Inc.

Message:

Shinko-Lac ABS SE-1 is a high modulus grade of ABS that has superior extrusion processability as well as vacuum formability while maintaining a balance of rigidity, strength and glossiness.

Typical applications of SE-1 include signboard, profile extrusion products and pipe.

General Information			
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Processability		
	Good Toughness		
	High Gloss		
	High Hardness		
	High Rigidity		
	High Strength		
	Machinable		
	Non-Toxic		
	Paintable		
	Pleasing Surface Appearance		
	Weldable		
Uses	Piping		
	Profiles		
UL File Number	E54695		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Calendering		
	Extrusion		
	Injection Molding		
	Pipe Extrusion		
	Vacuum Forming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	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)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2650	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	50.0	MPa	ASTM D638
Flexural Modulus (23°C, 6.35 mm)	2750	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	39	J/m	
0°C, 6.35 mm	88	J/m	
23°C, 6.35 mm	130	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	94.0	°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
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 to 200	°C	
Cylinder Zone 2 Temp.	200 to 220	°C	
Die Temperature	190 to 220	°C	
Take-Off Roll	80.0 to 110	°C	

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