Shinko-Lac® ABS SE-7

Acrylonitrile Butadiene Styrene

Mitsubishi Rayon America Inc.

Message:

Shinko-Lac ABS SE-7 is a high impact resistant 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-7 include attaché cases, piping and suitcases.

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	Luggage Piping
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	1.04	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)	104		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2260	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	39.2	MPa	ASTM D638
Flexural Modulus (23°C, 6.35 mm)	2260	MPa	ASTM D790
Flexural Strength (Yield, 23°C, 6.35 mm)	59.8	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°C, 6.35 mm	120	J/m	
0°C, 6.35 mm	250	J/m	
23°C, 6.35 mm	320	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	91.0	°C	ASTM D648
CLTE - Flow	9.0E-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	

Recommended distributors for this material

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