

Sindustris ABS LMA332

Acrylonitrile Butadiene Styrene

Sincerity Australia Pty Ltd.

Message:

Sindustris ABS LMA332 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific for extrusion or injection molding.

Important attributes of Sindustris ABS LMA332 are:

Flame Rated

Impact Resistant

Low Gloss

Typical applications include:

Automotive

Sheet

Trays/Racks

General Information			
Features	High Impact Resistance		
	Low Gloss		
Uses	Automotive Applications		
	Sheet		
	Support Trays		
UL File Number	E306922		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.19	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	42.2	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 50	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2160	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	60.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	290	J/m	
-30°C, 6.40 mm	150	J/m	

23°C, 3.20 mm	570	J/m	
23°C, 6.40 mm	310	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	90.0	°C	ASTM D648
Vicat Softening Temperature	98.0	°C	ASTM D1525 ⁵
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.60 mm	HB		
2.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.010	%	
Rear Temperature	180 to 200	°C	
Middle Temperature	190 to 210	°C	
Front Temperature	200 to 230	°C	
Nozzle Temperature	200 to 230	°C	
Processing (Melt) Temp	200 to 230	°C	
Mold Temperature	40.0 to 60.0	°C	
Back Pressure	29.4 to 58.8	MPa	
Screw Speed	30 to 60	rpm	
Extrusion	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.010	%	
Melt Temperature	200 to 230	°C	
Die Temperature	200 to 230	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	15 mm/min		
4.	15 mm/min		
5.	Rate A (50°C/h), Loading 2 (50 N)		

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