

Sindustris ABS LMP322

Acrylonitrile Butadiene Styrene

Sincerity Australia Pty Ltd.

Message:

Sindustris ABS LMP322 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific for injection molding. Primary attribute of Sindustris ABS LMP322: Flame Rated.
Typical applications include:
Appliances
Decorative Parts
Handles

General Information			
Features	Good Flow		
	Platable		
Uses	Appliances		
	Decorative Parts		
	Handles		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	27	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm)	2380	MPa	ASTM D638
Tensile Strength ² (Yield, 3.20 mm)	43.1	MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	40	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	2350	MPa	ASTM D790
Flexural Strength ⁵ (3.20 mm)	70.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	160	J/m	
-30°C, 6.40 mm	150	J/m	
23°C, 3.20 mm	340	J/m	
23°C, 6.40 mm	300	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed	95.0	°C	
1.8 MPa, Unannealed, 6.40 mm	87.0	°C	
Vicat Softening Temperature	95.0	°C	ASTM D1525 ⁶
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
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	190 to 210	°C	
Middle Temperature	200 to 220	°C	
Front Temperature	210 to 230	°C	
Nozzle Temperature	210 to 230	°C	
Processing (Melt) Temp	210 to 230	°C	
Mold Temperature	40.0 to 60.0	°C	
Back Pressure	68.6 to 88.3	MPa	
Screw Speed	< 80	rpm	
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	15 mm/min		
5.	15 mm/min		
6.	Rate A (50°C/h), Loading 2 (50 N)		

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