

Sindustris ABS LMP331

Acrylonitrile Butadiene Styrene

Sincerity Australia Pty Ltd.

Message:

Sindustris ABS LMP331 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris ABS LMP331 are:

Flame Rated

Good Adhesion

Typical application of Sindustris ABS LMP331: Automotive

General Information			
Features	Good Adhesion		
	Platable		
Uses	Automotive Applications		
	Automotive Exterior Trim		
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)	20	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 Strength ¹ (Yield, 3.20 mm)	44.1	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	40	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2450	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	74.5	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	89.0	°C	
Vicat Softening Temperature	97.0	°C	ASTM D1525 ⁵

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.	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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