

Sindustris ABS LHI211

Acrylonitrile Butadiene Styrene

Sincerity Australia Pty Ltd.

Message:

Sindustris ABS LHI211 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris ABS LHI211 are:

Flame Rated

Impact Resistant

Typical applications include:

Engineering/Industrial Parts

Plumbing/Piping/Potable Water

Safety Equipment

General Information			
Features	High Impact Resistance		
Uses	Fittings		
	Piping		
	Safety Helmets		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	12	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)	92		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm)	1610	MPa	ASTM D638
Tensile Strength ² (Yield, 3.20 mm)	37.3	MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	30	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	1810	MPa	ASTM D790
Flexural Strength ⁵ (3.20 mm)	58.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	28	J/m	
-30°C, 6.40 mm	28	J/m	
23°C, 3.20 mm	440	J/m	
23°C, 6.40 mm	420	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	90.0	°C	

1.8 MPa, Unannealed, 6.40 mm	84.0	°C	
Vicat Softening Temperature	90.0	°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
Electrical	Nominal Value	Unit	Test Method
Arc Resistance	6.00	sec	ASTM D495
Comparative Tracking Index (CTI) ⁷	PLC 0		IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 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 220	°C	
Nozzle Temperature	200 to 230	°C	
Processing (Melt) Temp	210 to 240	°C	
Mold Temperature	40.0 to 70.0	°C	
Back Pressure	29.4 to 58.8	MPa	
Screw Speed	30 to 60	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)		
7.	Solution A		

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