

Sindustris ABS LXR512

Acrylonitrile Butadiene Styrene

Sincerity Australia Pty Ltd.

Message:

Sindustris ABS LXR512 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris ABS LXR512 are:

Flame Rated

Heat Resistant

Typical applications include:

Housings

Automotive

Electrical/Electronic Applications

General Information			
Features	High Heat Resistance		
Uses	Automotive Interior Parts		
	Electrical Housing		
	Electrical/Electronic Applications		
	Housings		
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)	9.0	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)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	49.0	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield, 3.20 mm	> 5.0	%	
Break, 3.20 mm	25	%	
Flexural Modulus ³ (3.20 mm)	2550	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	78.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	88	J/m	
-30°C, 6.40 mm	78	J/m	
23°C, 3.20 mm	230	J/m	
23°C, 6.40 mm	220	J/m	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	105	°C	
1.8 MPa, Unannealed, 6.40 mm	95.0	°C	
Vicat Softening Temperature	102	°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
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	0.15	ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	33	kV/mm	ASTM D149
Arc Resistance	6.00	sec	ASTM D495
Comparative Tracking Index (CTI) ⁶	PLC 0		IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.010	%	
Rear Temperature	180 to 210	°C	
Middle Temperature	210 to 230	°C	
Front Temperature	230 to 240	°C	
Nozzle Temperature	230 to 240	°C	
Processing (Melt) Temp	220 to 240	°C	
Mold Temperature	40.0 to 60.0	°C	
Back Pressure	29.4 to 58.8	MPa	
Screw Speed	50 to 100	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)		
6.	Solution A		

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