

Sindustris ABS LXR512I

Acrylonitrile Butadiene Styrene

Sincerity Australia Pty Ltd.

Message:

Sindustris ABS LXR512I is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris ABS LXR512I are:

Flame Rated

Heat Resistant

Typical applications include:

Housings

Automotive

General Information			
Features	High Heat Resistance		
Uses	Automotive Exterior Parts		
	Electrical Housing		
	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)	6.0	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)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	50.0	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield, 3.20 mm	> 5.0	%	
Break, 3.20 mm	15	%	
Flexural Modulus ³ (3.20 mm)	2650	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	81.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	69	J/m	
-30°C, 6.40 mm	78	J/m	
23°C, 3.20 mm	160	J/m	
23°C, 6.40 mm	170	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed, 6.40 mm	108	°C	
1.8 MPa, Unannealed, 6.40 mm	100	°C	
Vicat Softening Temperature	108	°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)	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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