

Sindustris ABS LXR585

Acrylonitrile Butadiene Styrene

Sincerity Australia Pty Ltd.

Message:

Sindustris ABS LXR585 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris ABS LXR585 are:

Flame Rated

Heat Resistant

Typical applications include:

Automotive

Housings

General Information			
Features	High Heat Resistance		
Uses	Automotive Exterior Parts		
	Automotive Interior Parts		
	Housings		
UL File Number	E306922		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	2.0	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)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	44.1	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield, 3.20 mm	> 5.0	%	
Break, 3.20 mm	20	%	
Flexural Modulus ³ (3.20 mm)	2500	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	73.5	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	59	J/m	
23°C, 3.20 mm	130	J/m	
23°C, 6.40 mm	120	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed, 6.40 mm	118	°C	
1.8 MPa, Unannealed, 6.40 mm	111	°C	
Vicat Softening Temperature	118	°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	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.010	%	
Rear Temperature	180 to 220	°C	
Middle Temperature	220 to 240	°C	
Front Temperature	230 to 250	°C	
Nozzle Temperature	240 to 250	°C	
Processing (Melt) Temp	230 to 250	°C	
Mold Temperature	60.0 to 80.0	°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)		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

