

LEXAN™ 4501 resin

Polyphthalate Carbonate

SABIC Innovative Plastics

Message:

LEXAN 4501 is a copolymer of polyphthalate carbonate resin for applications requiring high heat resistance.

General Information			
Features	Copolymer		
	Heat resistance, high		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	10.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.70	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	65.0	MPa	ISO 527-2/50
Fracture	55.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	7.0	%	ISO 527-2/50
Fracture	> 50	%	ISO 527-2/50
Flexural Modulus ²	2300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	13	kJ/m ²	ISO 179/1eA
23°C	59	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact ⁵			ISO 180/1A
-30°C	11	kJ/m ²	ISO 180/1A
23°C	50	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁶			ISO 180/1U
-30°C	No Break		ISO 180/1U

23°C	No Break		ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	160	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Thermal Conductivity	0.21	W/m/K	ISO 8302
Electrical	Nominal Value		Test Method
Relative Permittivity (1 MHz)	3.00		IEC 60250
Dissipation Factor (100 Hz)	0.024		IEC 60250
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm, Testing by SABIC)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	125 - 135	°C	
Drying Time	3.0 - 4.0	hr	
Hopper Temperature	60.0 - 80.0	°C	
Rear Temperature	300 - 320	°C	
Middle Temperature	310 - 330	°C	
Front Temperature	320 - 340	°C	
Nozzle Temperature	320 - 340	°C	
Processing (Melt) Temp	325 - 360	°C	
Mold Temperature	100 - 125	°C	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*3 sp=62mm		
4.	80*10*3 sp=62mm		
5.	80*10*3		
6.	80*10*3		

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