LEXAN™ Copolymer 4501 - Americas

PC — Saudi Basic Industries Corporation (SABIC)

Product Texts

High heat resistant polyphthalate carbonate, provides DTUL of 290F at 264 psi.

UL Yellow Card Link E121562-220884

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	**3**	g/10min	ASTM D 1238
Temperature	**300**	°C	-
Load	**1.2**	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	**65**	MPa	ASTM D 638
Tensile Strength at Break	**71**	MPa	ASTM D 638
Elongation at Break	**122**	%	ASTM D 638
Flexural Modulus	**2020**	MPa	ASTM D 790
Rockwell Hardness	**R 122**	-	ASTM D 785
Izod Impact notched, 1/8 in	**640**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**3200**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn.	**V-2**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
ASTM Data			
DTUL @ 264 psi	**143**	°C	ASTM D 648
Thermal Conductivity, solid state	**0.0303**	W/(m K)	ASTM C 177
Specific Heat	**1250**	J/(kg K)	ASTM C 351

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dissipation Factor, 60 Hz	**0.0012**	-	ASTM D 150
Dielectric Constant, 60 Hz	**3.15**	-	ASTM D 150
Dielectric Constant, 1 MHz	**3**	-	ASTM D 150
Volume Resistivity	**>1E15**	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	**1200**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**340 - 360**	°C	-
Mold temperature	**80 - 115**	°C	-
Zone 1	**315 - 340**	°C	-
Zone 2	**325 - 350**	°C	-
Zone 3	**340 - 360**	°C	-
Screw speed	**40 - 70**	rpm	-
Back pressure	**0.3 - 0.7**	MPa	-

Characteristics

Processing
Injection Molding

Regional Availability
North America

Applications
Automotive