LNP™ KONDUIT™ Compound DTK22

PC-MF | Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP KONDUIT DTK22 compound is based on Polycarbonate (PC) resin containing minerals. Added features of this grade include: Thermally Conductive and Electrically Insulative.

UL Yellow Card Link E207780-102451424

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.41**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.39**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**3880**	MPa	ISO 527
Stress at break	**42**	MPa	ISO 527
Strain at break	**4.1**	%	ISO 527
Flexural modulus	**4180**	MPa	ISO 178
Izod impact strength, +23°C, 4mm	**41**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**13**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**3830**	MPa	ASTM D 638
Tensile Strength at Break	**41**	MPa	ASTM D 638
Elongation at Break	**5**	%	ASTM D 638
Flexural Modulus	**3160**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**150**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**700**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**119**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**128**	°C	ISO 75-1/-2
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.5**	mm	-
Glow Wire Flammability Index (GWFI)	**875**	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (GWIT)	**850**	°C	IEC 60695-2-13
GWIT - thickness tested (1)	**1**	mm	-
ASTM Data			
DTUL @ 66 psi	**127**	°C	ASTM D 648
DTUL @ 264 psi	**121**	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.03**	%	Sim. to ISO 62
Density	**1460**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**120**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**260 - 300**	°C	-
Mold temperature	**80 - 120**	°C	-
Feed temperature	**60 - 80**	°C	-
Zone 1	**250 - 280**	°C	-
Zone 2	**260 - 290**	°C	-
Zone 3	**260 - 290**	°C	-

Characteristics

Processing
Injection Molding

Special Characteristics
Thermally Conductive

Regional Availability
North America, Europe, Asia Pacific