



LNP™ KONDUIT™ Compound OX11315

Americas: COMMERCIAL

Also known as: LNP™ KONDUIT™ Compound OX11315

Product reorder name: OX11315

LNP™ KONDUIT™ OX11315 is a thermally conductive, electrically insulative, mineral filled PPS Flame Retardant compound.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	410	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	0.2	%	ASTM D 638
Tensile Modulus, 5 mm/min	306900	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	830	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	270200	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	54	MPa	ISO 527
Tensile Strain, break, 5 mm/min	0.3	%	ISO 527
Tensile Modulus, 1 mm/min	18380	MPa	ISO 527
Flexural Stress	84	MPa	ISO 178
Flexural Modulus, 2 mm/min	21380	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	5	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	1	cm-kgf/cm	ASTM D 256
Multiaxial Impact	11	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	52	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	1	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	275	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	242	°C	ASTM D 648
Specific Heat	1.26	J/g-°C	ASTM C 351
Thermal Conductivity through-plane, 10*10*3mm sample	3.5	W/m-K	ASTM E 1461-07
Thermal Conductivity in-plane, ø25*0.4mm disc	15	W/m-K	ASTM E 1461-07



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THERMAL			
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	275	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	238	°C	ISO 75/Af
Relative Temp Index, Elec	130	°C	UL 746B
Relative Temp Index, Mech w/impact	130	°C	UL 746B
Relative Temp Index, Mech w/o impact	130	°C	UL 746B
PHYSICAL			
Specific Gravity	1.78	-	ASTM D 792
Density	1.76	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.01	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.34	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.44	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.01	%	ISO 62
ELECTRICAL			
Surface Resistivity	2.4E+15	Ohm	ASTM D 257
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating (3)	1	mm	UL 94
UL Recognized, 94-5VA Rating (3)	2.5	mm	UL 94



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Melt Temperature	320 - 350	°C
Front - Zone 3 Temperature	315 - 345	°C
Middle - Zone 2 Temperature	315 - 345	°C
Rear - Zone 1 Temperature	315 - 345	°C
Mold Temperature	110 - 150	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	60 - 100	rpm
Shot to Cylinder Size	50 - 75	%