

LNP* Thermocomp* Compound Noryl_RN1300

Asia Pacific: COMMERCIAL

15% glass/mineral reinforced PPE. Nonchlorinated, nonbrominated, flame-retardant. Black and gray.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	1040	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	1050	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	6.9	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3.2	%	ASTM D 638
Tensile Modulus, 5 mm/min	47400	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1680	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	49900	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	28	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	4	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	62	cm-kgf	ASTM D 3763
THERMAL			
Vicat Softening Temp, Rate B/50	142	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm, unannealed	140	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	137	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	132	°C	ASTM D 648
CTE, -40°C to 60°C, flow	3.42E-05	1/°C	ASTM E 831
CTE, -40°C to 60°C, xflow	5.4E-05	1/°C	ASTM E 831
Relative Temp Index, Elec	110	°C	UL 746B
Relative Temp Index, Mech w/impact	105	°C	UL 746B
Relative Temp Index, Mech w/o impact	110	°C	UL 746B
PHYSICAL			
Specific Gravity	1.23	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.3 - 0.45	%	SABIC Method

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
PHYSICAL			
Mold Shrinkage, xflow, 3.2 mm	0.3 - 0.5	%	SABIC Method
Melt Flow Rate, 300°C/1.2 kgf	26.6	g/10 min	ASTM D 1238
ELECTRICAL			
Arc Resistance, Tungsten {PLC}	6	PLC Code	ASTM D 495
Hot Wire Ignition {PLC}	0	PLC Code	UL 746A
High Voltage Arc Track Rate {PLC}	4	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	1	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	3	PLC Code	UL 746A
FLAME CHARACTERISTICS			
UL Recognized, 94V-1 Flame Class Rating (3)	0.76	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating (3)	1.52	mm	UL 94