

LNP™ THERMOCOMP™ Noryl_PX5379

compound

Polyphenylene Ether + PS

SABIC Innovative Plastics Europe

Message:

LNP THERMOCOMP NORYL_PX5379 compound is a 10% GR. UL94 V-1 rated. Halogen free flame retardant. Typical applications are TV chassis, deflection yokes and connectors.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Flame Retardant		
	Halogen Free		
Uses	Connectors		
	Television Housings		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.50	%	Internal Method
Water Absorption			ASTM D570
24 hr	0.070	%	
Equilibrium, 23°C	0.22	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	74.5	MPa	ASTM D638
Tensile Elongation ² (Break)	5.0	%	ASTM D638
Flexural Modulus ³ (50.0 mm Span)	4000	MPa	ASTM D790
Flexural Strength ⁴ (Break, 50.0 mm Span)	120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	69	J/m	
23°C	96	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	132	°C	ASTM D648
Vicat Softening Temperature	148	°C	ASTM D1525 ⁵

RTI Elec	110	°C	UL 746
RTI Imp	105	°C	UL 746
RTI Str	110	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Constant			ASTM D150
50 Hz	3.00		
60 Hz	3.00		
1 MHz	3.00		
Dissipation Factor			ASTM D150
50 Hz	1.7E-3		
60 Hz	1.7E-3		
1 MHz	1.6E-3		
Comparative Tracking Index (CTI)	PLC 2		UL 746
High Amp Arc Ignition (HAI)	PLC 2		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 4		UL 746
Hot-wire Ignition (HWI)	PLC 1		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.47 mm)	V-1		UL 94
Oxygen Index	31	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	104 to 110	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	30 to 70	%	
Rear Temperature	260 to 304	°C	
Middle Temperature	271 to 310	°C	
Front Temperature	282 to 316	°C	
Nozzle Temperature	293 to 316	°C	
Processing (Melt) Temp	293 to 316	°C	
Mold Temperature	76.7 to 104	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	20 to 100	rpm	
NOTE			
1.	Type I, 5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	Rate B (120°C/h), Loading 2 (50 N)		

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