LNP™ STAT-KON™ QEL329 compound

Polyamide 610

SABIC Innovative Plastics Asia Pacific

Message:

LNP STAT-KON* QEL329 is a compound based on Nylon 6/10 resin containing Carbon Fiber, Flame Retardant, PTFE. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound QCL-4032 FR-1
Product reorder name: QEL329

General Information			
UL YellowCard	E207780-101358103		
Filler / Reinforcement	Carbon Fiber		
Additive	PTFE Lubricant		
Features	Electrically Conductive Flame Retardant Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.44	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20 to 0.40	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	0.70 to 0.90	%	ASTM D955
Across Flow : 24 hr	0.70 to 0.80	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.13	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.13	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	8830	MPa	ASTM D638
--	9580	MPa	ISO 527-2/1
Tensile Strength			
Break	117	MPa	ASTM D638
Break	126	MPa	ISO 527-2
Tensile Elongation			
Break	2.5	%	ASTM D638
Break	2.4	%	ISO 527-2
Flexural Modulus			
--	5990	MPa	ASTM D790
--	7010	MPa	ISO 178
Flexural Strength			

--	172	MPa	ASTM D790
--	185	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.47		
vs. Itself - Static	0.37		
Wear Factor - Washer	63.0	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	37	J/m	ASTM D256
23°C [2]	4.7	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	380	J/m	ASTM D4812
23°C [3]	29	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.17	J	ASTM D3763
--	9.39	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	164	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [4]	193	°C	ISO 75-2/Af
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+3 to 1.0E+5	ohms	ASTM D257
Volume Resistivity	1.0E+3 to 1.0E+5	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm, Testing by SABIC)	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.12 to 0.20	%	
Rear Temperature	249 to 260	°C	
Middle Temperature	260 to 271	°C	
Front Temperature	271 to 282	°C	
Processing (Melt) Temp	271 to 277	°C	
Mold Temperature	82.2 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

Recommended distributors for this material

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