

LNP* Stat-kon* Compound Noryl_FMC1010

Americas: COMMERCIAL

LNP* Stat-kon* Noryl_FMC1010 compound is a 10% carbon fiber, static dissipative, foamable resin Nonchlorinated, nonbrominated. UL94 V1 rated. Property values at 20% WR, 0.250" wall.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
FOAM - MECHANICAL 6.4 mm Wt Reduction	20	%	-
Tensile Stress, yield, 6.35 mm	45	MPa	ASTM D 638
Tensile Strain, break, 6.35 mm	4.1	%	ASTM D 638
Flexural Stress, yield, 6.4 mm	95	MPa	ASTM D 790
Flexural Modulus, 6.4 mm	5990	MPa	ASTM D 790
IMPACT	Value	Unit	Standard
FOAM - IMPACT 6.4 mm Wt Reduction	20	%	-
Izod Impact, unnotched, 23°C, 6.4mm	154	J/m	ASTM D 4812
THERMAL	Value	Unit	Standard
FOAM - THERMAL 6.4mm Wt Reduction	20	%	-
HDT, 0.45 MPa, 6.4 mm, unannealed	103	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	97	°C	ASTM D 648
Relative Temp Index, Elec	50	°C	UL 746B
Relative Temp Index, Mech w/impact	50	°C	UL 746B
Relative Temp Index, Mech w/o impact	50	°C	UL 746B
PHYSICAL	Value	Unit	Standard
FOAM - PHYSICAL 6.4mm Wt Reduction	20	%	-
Specific Gravity	1.15	-	ASTM D 792
Specific Gravity, foam molded	0.92	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.15 - 0.25	%	SABIC Method
Mold Shrinkage, xflow, 3.2 mm	0.2 - 0.4	%	SABIC Method
ELECTRICAL	Value	Unit	Standard
FOAM - ELECTRICAL 6.4 mm Wt Reduction	20	%	-
Volume Resistivity	8.E+03	Ohm-cm	ASTM D 257
Surface Resistivity	1.3E+04	Ohm	ASTM D 257
FLAME CHARACTERISTICS	Value	Unit	Standard
FOAM - Flame Class Minimum Density	0.96	g/cm ³	-
UL Recognized, 94V-1 Flame Class Rating (3)	3.98	mm	UL 94

Source GMD, last updated:02/08/1993

Processing

Parameter	Value	Unit
Structural Foam Molding		
Blowing Agent, Physical System	Nitrogen Gas	-
Blowing Agent, Chemical System	FNC30X	-
Concentration Range (Blowing Agent)	1 - 3	%
Recommended Concentration (Blowing Agent)	2	%
Drying Temperature (Resin)	105 - 110	°C

Drying Time (Resin)	2 - 4	hrs
Drying Time (Resin, Cumulative)	8	hrs
Melt Temperature	240 - 280	°C
Nozzle Temperature	265 - 280	°C
Front Temperature	260 - 280	°C
Middle Temperature	250 - 260	°C
Rear Temperature	240 - 250	°C
Mold Temperature	65 - 80	°C

Source GMD, last updated:02/08/1993

- Drying is not required/recommended.

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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