

LNP™ THERMOCOMP™ 5C004 compound

Polyvinylidene Fluoride
SABIC Innovative Plastics

Technical Data

Product Description

LNP* Thermocomp* 5C004 is a compound based on Polyvinylidene Fluoride resin containing 20% Carbon Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* Thermocomp* Compound FP-VC-1004
Product reorder name: 5C004

General

Material Status	Commercial: Active
Literature ¹	Technical Datasheet
Search for UL Yellow Card	SABIC Innovative Plastics LNP™ THERMOCOMP™
Availability	North America
Filler / Reinforcement	Carbon Fiber Reinforcement, 20% Filler by Weight
Features	Electrically Conductive
Processing Method	Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.75 g/cm³	ASTM D792

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus ³	16400 MPa	ASTM D638
Tensile Strength (Break)	84.1 MPa	ASTM D638
Tensile Elongation (Break)	0.70 %	ASTM D638
Flexural Modulus	13900 MPa	ASTM D790
Flexural Strength	138 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	53 J/m	ASTM D256
Unnotched Izod Impact (23°C)	290 J/m	ASTM D4812

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 3.20 mm	154 °C	ASTM D648

Injection	Nominal Value Unit
Drying Temperature	120 to 150 °C
Drying Time	4.0 hr
Rear Temperature	190 to 210 °C
Middle Temperature	210 to 225 °C
Front Temperature	225 to 245 °C
Processing (Melt) Temp	215 to 230 °C
Mold Temperature	65.0 to 90.0 °C
Back Pressure	0.170 to 0.340 MPa
Screw Speed	30 to 60 rpm

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 50 mm/min