

LNP Thermocomp* AF-1006 FR BK8-115



Prospector

Acrylonitrile Butadiene Styrene

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement
Features	• Flame Retardant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792A

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9210	MPa	ASTM D638
Tensile Strength (Break)	73.8	MPa	ASTM D638
Tensile Elongation (Break)	1.3	%	ASTM D638
Flexural Modulus	8150	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	37.4	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	214	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	37.8	°C	ASTM D648

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.80 mm)	V-0		UL 94

Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.075	%
Processing (Melt) Temp	260	°C
Mold Temperature	71.1 to 82.2	°C
Back Pressure	0.172 to 0.345	MPa

Notes

¹ Typical properties: these are not to be construed as specifications.