

## Nylene® 51GR13HS

Polymeric Resources Corporation (PRC) - Polyamide 66

### General Information

#### Product Description

13% Glass Reinforced, Heat Stabilized, Nylon 6/6

#### General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 13% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Stabilized
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.22		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F)	17300	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	800000	psi	ASTM D790
Flexural Strength	32100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.2	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	480	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	455	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	HB		UL 94

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	2.0E-3	%
Rear Temperature	500 to 540	°F
Middle Temperature	500 to 559	°F
Front Temperature	500 to 559	°F
Nozzle Temperature	500 to 559	°F
Processing (Melt) Temp	520 to 559	°F
Mold Temperature	81 to 160	°F
Back Pressure	50.0 to 100	psi

