

NYLENE® 5150 HS

PA66-GF50

Polymeric Resources Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.01	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	195	MPa	ISO 527
Flexural modulus, 23°C	10000	MPa	ISO 178
Charpy impact strength, +23°C	145	kJ/m ²	ISO 179/1eU
ASTM Data			
Tensile Strength	193	MPa	ASTM D 638
Flexural Modulus	10070	MPa	ASTM D 790
Izod Impact notched, 1/8 in	160	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	255	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	245	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	249	°C	ASTM D 648
Melting Temperature	254	°C	ASTM D 3418

Other properties	Value	Unit	Test Standard
Density	1540	kg/m ³	ISO 1183
Density	1560	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	65 - 82	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.2	%	-
Melt temperature	287 - 316	°C	-
Mold temperature	82 - 93	°C	-
Zone 1	260 - 293	°C	-
Zone 2	277 - 299	°C	-
Zone 3	282 - 310	°C	-
Nozzle temperature	279 - 307	°C	-
Injection pressure	5 - 15	MPa	-
Back pressure	0 - 50	MPa	-
Holding pressure	4 - 12	MPa	-
Maximum residence time	6	min	-

Characteristics**Processing**

Injection Molding

Additives

Lubricants

Special Characteristics

Heat stabilized or stable to heat

Chemical Resistance

General Chemical Resistance

Applications

Automotive, General Purpose

Regional Availability

North America