

NYLENE® 5110 HS

PA66-GF10

Polymeric Resources Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.06	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	88	MPa	ISO 527
Flexural modulus, 23°C	3650	MPa	ISO 178
Charpy impact strength, +23°C	40	kJ/m ²	ISO 179/1eU

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	223	°C	ISO 75-1/-2

Other properties	Value	Unit	Test Standard
Density	1190	kg/m ³	ISO 1183

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	49 - 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

Features

Creep Resistance

Chemical Resistance

General Chemical Resistance, Oil Resistance

Applications

Automotive, Electrical and Electronical, General Purpose

Regional Availability

North America