

NYLENE® NX4001A

PA6

Polymeric Resources Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.014	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength	82.7	MPa	ASTM D 638
Flexural Modulus	2758	MPa	ASTM D 790
Rockwell Hardness	R 119	-	ASTM D 785
Izod Impact notched, 1/8 in	42.7	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	170	°C	ASTM D 648
DTUL @ 264 psi	60	°C	ASTM D 648
Melting Temperature	220	°C	ASTM D 3418

Other properties	Value	Unit	Test Standard
Density	1130	kg/m ³	ASTM D 792

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	82	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	230 - 245	°C	-
Feed temperature	215 - 230	°C	-
Zone 1	225 - 240	°C	-
Zone 2	230 - 245	°C	-
Nozzle temperature	230 - 245	°C	-

Characteristics**Processing**

Pipe/Tube Extrusion, Profile Extrusion

Regional Availability

North America

Features

Nucleated