

## Product Texts

DuraStar™ Polymer MN610 Natural polymer has excellent appearance and is nearly water-clear. Benefits include toughness, chemical resistance, and excellent processing characteristics. MN610 has very good toughness as shown by Izod impact resistance. Easy to process, it flows readily and fills intricate molds. This product does not contain a mold release.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.004	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	1800	MPa	ISO 527
Yield stress	47	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	46	MPa	ISO 527
Strain at break	200	%	ISO 527
Flexural modulus, 23°C	1850	MPa	ISO 178
Flexural strength	65	MPa	ISO 178
Izod notched impact strength, +23°C	7.8	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	4.8	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-40	°C	-
<b>ASTM Data</b>			
Tensile Strength at Yield	47	MPa	ASTM D 638
Tensile Strength at Break	54	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	300	%	ASTM D 638
Flexural Modulus	2000	MPa	ASTM D 790
Rockwell Hardness	103	-	ASTM D 785
Izod Impact notched, 1/8 in	80.1	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	40	J/m	ASTM D 256
Temperature	-40	°C	-
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ASTM Data</b>			
DTUL @ 66 psi	74	°C	ASTM D 648
DTUL @ 264 psi	65	°C	ASTM D 648
<b>Optical properties</b>			
<b>ASTM Data</b>			
Haze	0.3	%	ASTM D 1003
Light Transmittance	91	%	ASTM D 1003
<b>Other properties</b>			
Density	1200	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	70	°C	-
Pre-drying - Time	3	h	-
Melt temperature	230 - 280	°C	-
Mold temperature	15 - 30	°C	-

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Natural Color

**Special Characteristics**

Transparent

**Chemical Resistance**

General Chemical Resistance

**Applications**

Medical

**Regional Availability**

North America, Europe, Near East/Africa