

**Product Texts**

NAS® XC is a styrene methyl methacrylate copolymer that can be used in a variety of applications demanding a low haze and extreme clarity.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	<b>24</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>220</b>	°C	-
Load	<b>10</b>	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>1.6</b>	g/10min	ASTM D 1238
Temperature	<b>200</b>	°C	-
Load	<b>5</b>	kg	-
Mold Shrinkage, MD	<b>0.004</b>	mm/mm	ASTM D 955

[C]: CAMPUS

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>3400</b>	MPa	ISO 527
<sup>[C]</sup> Stress at break	<b>65</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break	<b>3</b>	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	<b>20.5</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>1.4</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<b>ASTM Data</b>			
Tensile Modulus	<b>3241</b>	MPa	ASTM D 638
Flexural Modulus	<b>3172</b>	MPa	ASTM D 790
Flexural Strength	<b>103</b>	MPa	ASTM D 790
Rockwell Hardness	<b>M 70</b>	-	ASTM D 785

[C]: CAMPUS

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>99</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	<b>98</b>	°C	ISO 306
<b>ASTM Data</b>			
Glass Transition Temperature	<b>102</b>	°C	ASTM E 1356
Vicat Temperature	<b>105</b>	°C	ASTM D 1525

[C]: CAMPUS

<b>Optical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Haze	<b>0.3</b>	%	ASTM D 1003
Light Transmittance	<b>93</b>	%	ASTM D 1003
Index of Refraction	<b>1.54</b>	-	ASTM D 542

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<sup>[C]</sup> Water absorption	<b>0.17</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1110</b>	kg/m <sup>3</sup>	ISO 1183
Water Absorption, Equilibrium	<b>0.17</b>	%	ASTM D 570
Density	<b>1110</b>	kg/m <sup>3</sup>	ASTM D 792

[C]: CAMPUS

<b>Film Properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Elongation at Break, MD	<b>3</b>	%	ASTM D 882

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>82</b>	°C	-
Pre-drying - Time	<b>2</b>	h	-
Melt temperature	<b>200 - 240</b>	°C	-
Mold temperature	<b>32 - 60</b>	°C	-

**Characteristics**

**Processing**

Injection Molding

**Features**

Light Guiding, Copolymer

**Delivery form**

Pellets

**Applications**

Electrical and Electronical

**Special Characteristics**

Transparent

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

**Other text information**

**Injection molding**

PREPROCESSING

Pre-drying, Temperature: 82°C

Pre-drying, Time: 2h

PROCESSING

Melt temperature, range: 200 - 240°C

Mold temperature, range: 32 - 60°C