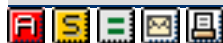


Friday, March 09, 2007

**Zeonor 1420R**Nippon Zeon Co., LTD. - *Polyolefin, Unspecified*

Unit System:

**Actions**Legend ([Open](#))**General Information****General**

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>North America</li> <li>Pacific Rim</li> </ul>
Test Standards Available	<ul style="list-style-type: none"> <li>ASTM</li> </ul>
Additive	<ul style="list-style-type: none"> <li>Impact Modifier</li> </ul>
Features	<ul style="list-style-type: none"> <li>Amorphous</li> <li>Clarity, High</li> <li>Flow, High</li> <li>Impact Modified</li> <li>Thermal Stability, Good</li> <li>Water Absorption, Low to None</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Automotive Applications</li> <li>Electrical/Electronic Applications</li> <li>Optical Applications</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Transparent</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

**ASTM and ISO Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density -Specific Gravity	1.01	sp gr	23/23°C ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/2.16 kg)	20.0	g/10 min	ASTM D1238
Mold Shrink, Linear-Flow	0.0050 to 0.0070	in/in	ASTM D955
Water Absorption @ Equil (50% RH, 73 °F)	0.0100	%	ASTM D570
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	2.90E+6	psi	ASTM D638
Tensile Strength	8820	psi	ASTM D638
Tensile Elongation @ Brk	60	%	ASTM D638
Flexural Modulus	319000	psi	ASTM D790
Flexural Strength	138000	psi	ASTM D790
<b>Films</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Water Vapor Transmission	0.019	g/100 in <sup>2</sup> /day	ASTM E96
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact	0.533	ft-lb/in	ASTM D256
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Rockwell Hardness (R-Scale)	120		ASTM D785
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>

DTUL @264psi - Unannealed	277 °F	ASTM D648
Glass Transition Temp	277 °F	DSC
Vicat Softening Point	293 °F	ASTM D1525
CLTE, Flow	0.000039 in/in/°F	ASTM D696
<b>Electrical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Volume Resistivity	1.0E+16 ohm·cm	ASTM D257
Dielectric Strength	1780 V/mil	ASTM D149
Dielectric Constant (1E+6 Hz)	2.300	ASTM D150
Dissipation Factor (1E+6 Hz)	0.00020	ASTM D150
<b>Optical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Refractive Index	1.530	ASTM D542
Transmittance	92.0 %	ASTM D1003

### Additional Properties

The value listed as Water Vapor Transmittance, ASTM E96, was tested in accordance with JIS Z 0208.

The value listed as Melt Flow Rate, ASTM D1238, was tested in accordance with JIS K 6719.

Volume Resistivity, ASTM D257: >10<sup>16</sup> ohm cm

Dielectric Breakdown Strength, ASTM D149: >70 KV/mm

Water Absorption, ASTM D570, 50%RH @ 22.7°C: <.01 %

Thermal Decomposition Temperature: 420°C

Moisture permeability 24hrs, JIS Z 2080, 90% RH 40°C .15mm: .67

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.