

## Technical Data Sheet

### *Polyman* (PC) XP 21 RS NAT 30003



Polycarbonate

#### Product Description

Good flow PC standard grade,RN: food contact grade - RS: UV-stabilized

**Processing Method** Injection Molding

**Resin ID** PC

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Volume Flow Rate, (300 °C/1.2 kg)	14	cm <sup>3</sup> /10 min	ISO 1133
Density, (Method A)	1.20	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b>			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	61.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	6.0	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2300	MPa	ISO 527-1
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	70	kJ/m <sup>2</sup>	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	34	kJ/m <sup>2</sup>	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	No Break		ISO 179
<b>Hardness</b>			
Ball Indentation Hardness, (H 358/30)	110	MPa	ISO 2039-1
<b>Thermal</b>			
Vicat Softening Temperature, (B (50N), 50 °C/h)	150	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	138	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	126	°C	ISO 75-2/A
<b>Electrical</b>			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Comparative Tracking Index (CTI)	275	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
<b>Flammable</b>			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302
Glow Wire Flammability Index, (2.0 mm)	850	°C	IEC 60695-2-12
<b>UL Information</b>			

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Flammability Classification

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(1.5 mm)	V-2	IEC 60695-11-10, - 20
(3.0 mm)	V-2	IEC 60695-11-10, - 20

<b>Injection Parameters</b>	<b>Nominal Value</b>	<b>Units</b>
Drying Time	4.0 to 12	hr
Drying Temperature	120	°C
Processing (Melt) Temp	280 to 310	°C
Mold Temperature	85 to 115	°C