

**TAIRIPRO® K1011AG**

 Formosa Chemicals & Fibre Corporation - *Polypropylene Homopolymer*
**General Information**
**Product Description**

Injection Molding

Features: Long term heat resistance, High stiffness, Good luster

**General**

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Good Heat Resistance	• High Stiffness	• Homopolymer
Agency Ratings	• FDA 21 CFR 177.1520(c) 1.1a	• JHOSPA	
UL File Number	• E162823		
Processing Method	• Injection Molding		

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity <sup>2</sup>	0.902		ASTM D792
Density (73°F)	0.900	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage (73°F)	1.4 to 1.8	%	Internal Method
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Stress (73°F)	5370	psi	ISO 527-2/50
Tensile Elongation <sup>3</sup> (Break, 73°F)	> 200	%	ASTM D638
Tensile Strain (Break, 73°F)	> 200	%	ISO 527-2/50
Flexural Modulus (73°F)	235000	psi	ASTM D790
Flexural Modulus (73°F)	235000	psi	ISO 178
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact			ASTM D256
73°F, 0.125 in	0.66	ft·lb/in	
73°F, 0.157 in	0.66	ft·lb/in	
Notched Izod Impact Strength			ISO 180
73°F, 0.125 in	17	ft·lb/in <sup>2</sup>	
73°F, 0.157 in	17	ft·lb/in <sup>2</sup>	
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Rockwell Hardness (R-Scale, 73°F)	107		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	107		ISO 2039-2
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load <sup>4</sup> (66 psi, Unannealed, 0.250 in)	257	°F	ASTM D648
Deflection Temperature Under Load <sup>4</sup> (66 psi, Unannealed, 0.250 in)	257	°F	ISO 75-2/B
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating			UL 94
0.06 in, All Color		HB	
0.06 to 0.12 in		HB	
0.12 in, All Color		HB	

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Mold Temperature	86 to 122	°F



Injection Pressure	1140 to 1710 psi
<b>Notes</b>	
<sup>1</sup> Typical properties: these are not to be construed as specifications.	
<sup>2</sup> 23°C	
<sup>3</sup> 2.0 in/min	
<sup>4</sup> 120°C/h	

