

**TAIRIPRO® K7025**

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

Injection Molding

Features: High fluidity, High impact strength,

**General**

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Features	• High Flow • High Impact Resistance • Impact Copolymer
Agency Ratings	• EC 1907/2006 (REACH) • FDA 21 CFR 177.1520(c) 3.1a
RoHS Compliance	• RoHS Compliant
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)	27	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	27	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 Strength <sup>3</sup> (73°F)	3840	psi	ASTM D638
Tensile Stress (73°F)	3770	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)	199000	psi	ASTM D790
Flexural Modulus (73°F)	199000	psi	ISO 178
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact			ASTM D256
-4°F, 0.157 in	0.83	ft·lb/in	
73°F, 0.125 in	1.5	ft·lb/in	
Notched Izod Impact Strength			ISO 180
0°F, 0.157 in	21	ft·lb/in <sup>2</sup>	
73°F, 0.125 in	37	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)	93		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	93		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)	248	°F	ASTM D648
Deflection Temperature Under Load <sup>4</sup> (66 psi, Unannealed, 0.250 in)	248	°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**


Injection	Nominal Value	Unit
Mold Temperature	86 to 122	°F
Injection Pressure	427 to 853	psi

#### Notes

<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

