

**TAIRIPRO® K8050**

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

Injection Molding

Features: High fluidity, Good impact strength, High Stiffness, Low warpage

**General**

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Good Impact Resistance	• High Stiffness	• Low Warpage
	• High Flow	• 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)	50	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	50	g/10 min	ISO 1133
Molding Shrinkage - Flow (73°F)	0.014 to 0.018	in/in	Internal Method
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)	3410	psi	ASTM D638
Tensile Stress (73°F)	3340	psi	ISO 527-2/50
Tensile Elongation <sup>3</sup> (Break, 73°F)	> 100	%	ASTM D638
Tensile Strain (Break, 73°F)	> 100	%	ISO 527-2/50
Flexural Modulus (73°F)	178000	psi	ASTM D790
Flexural Modulus (73°F)	178000	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	0.92	ft·lb/in	
73°F, 0.125 in	1.8	ft·lb/in	
Notched Izod Impact Strength			ISO 180
0°F, 0.157 in	23	ft·lb/in <sup>2</sup>	
73°F, 0.125 in	47	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)	85		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	85		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)	239	°F	ASTM D648
Deflection Temperature Under Load <sup>4</sup> (66 psi, Unannealed, 0.250 in)	239	°F	ISO 75-2/B
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating (0.06 in, All Color)	HB		UL 94

**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

