

TAIRIPRO® K1023

 Formosa Chemicals & Fibre Corporation - *Polypropylene Homopolymer*

General Information

Product Description

Injection Molding

Features: High fluidity, Good stiffness, Good luster

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Good Stiffness	• High Flow	• Homopolymer
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
RoHS Compliance	• RoHS Compliant		
UL File Number	• E162823		
Processing Method	• Injection Molding		

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	0.902		ASTM D792
Density (73°F)	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ISO 1133
Molding Shrinkage (73°F)	1.4 to 1.8	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (73°F)	4840	psi	ASTM D638
Tensile Stress (73°F)	4790	psi	ISO 527-2/50
Tensile Elongation ³ (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
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
73°F, 0.125 in	0.48	ft·lb/in	
73°F, 0.157 in	0.48	ft·lb/in	
Notched Izod Impact Strength			ISO 180
73°F, 0.125 in	12	ft·lb/in ²	
73°F, 0.157 in	12	ft·lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	100		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	100		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁴ (66 psi, Unannealed, 0.250 in)	230	°F	ASTM D648
Deflection Temperature Under Load ⁴ (66 psi, Unannealed, 0.250 in)	230	°F	ISO 75-2/B
Flammability	Nominal Value	Unit	Test Method
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	1140 to 1710	psi

Notes

¹ Typical properties: these are not to be construed as specifications.

² 23°C

³ 2.0 in/min

⁴ 120°C/h

