

TAIRIPRO® K2051

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

Injection Molding

Features: Super high fluidity, High stiffness, Good luster, Nucleating agent, Low warpage

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Additive	• Nucleating Agent
Features	• High Flow • High Stiffness • Homopolymer • Low Warpage • Nucleated
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)	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
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (73°F)	5690	psi	ASTM D638
Tensile Stress (73°F)	5660	psi	ISO 527-2/50
Tensile Elongation ³ (Break, 73°F)	> 50	%	ASTM D638
Tensile Strain (Break, 73°F)	> 50	%	ISO 527-2/50
Flexural Modulus (73°F)	284000	psi	ASTM D790
Flexural Modulus (73°F)	284000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
73°F, 0.125 in	0.73	ft·lb/in	
73°F, 0.157 in	0.73	ft·lb/in	
Notched Izod Impact Strength			ISO 180
73°F, 0.125 in	19	ft·lb/in ²	
73°F, 0.157 in	19	ft·lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	110		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	110		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁴ (66 psi, Unannealed, 0.250 in)	275	°F	ASTM D648
Deflection Temperature Under Load ⁴ (66 psi, Unannealed, 0.250 in)	275	°F	ISO 75-2/B
Processing Information			
Injection	Nominal Value	Unit	
Mold Temperature	86 to 122	°F	
Injection Pressure	1140 to 1710	psi	



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

² 23°C

³ 2.0 in/min

⁴ 120°C/h

