

TAIRIPRO® K7009

Formosa Chemicals & Fibre Corporation - Polypropylene Impact Copolymer

General Information

Product Description

Injection Molding

Features: High stiffness, Good impact strength

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Features	• Good Impact Resistance • High Stiffness • 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 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)	9.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	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)	3700	psi	ASTM D638
Tensile Stress (73°F)	3630	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)	192000	psi	ASTM D790
Flexural Modulus (73°F)	192000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-4°F, 0.157 in	0.85	ft·lb/in	
73°F, 0.125 in	2.0	ft·lb/in	
Notched Izod Impact Strength			ISO 180
0°F, 0.157 in	21	ft·lb/in ²	
73°F, 0.125 in	51	ft·lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	94		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	94		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁴ (66 psi, Unannealed, 0.250 in)	248	°F	ASTM D648
Deflection Temperature Under Load ⁴ (66 psi, Unannealed, 0.250 in)	248	°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	427 to 853	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

