

TAIRIPRO® S1040

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

Multi-Filament

Features: Controlled rheology, Compact spinning, Anti gas-fading

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Controlled Rheology	• Gas-fading Resistant	• Homopolymer
Uses	• Filaments		
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
RoHS Compliance	• RoHS Compliant		
UL File Number	• E162823		
Processing Method	• Filament Extrusion		

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)	34	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	34	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (73°F)	4980	psi	ASTM D638
Tensile Stress (73°F)	4930	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)	213000	psi	ASTM D790
Flexural Modulus (73°F)	213000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
73°F, 0.125 in	0.42	ft·lb/in	
73°F, 0.157 in	0.42	ft·lb/in	
Notched Izod Impact Strength			ISO 180
73°F, 0.125 in	11	ft·lb/in ²	
73°F, 0.157 in	11	ft·lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	103		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	103		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

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

² 23°C

³ 2.0 in/min

⁴ 120°C/h
