TAIRIPRO® T3002

Formosa Chemicals & Fibre Corporation - *Polypropylene Random Copolymer*

General Information

Product Description

Extrusion & Blow Molding

Features: Good transparency, Good resistance to chemical

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Chemical Resistant	• Good Clarity	• Random Copolymer
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520(c) 3.1a	
RoHS Compliance	• RoHS Compliant		
UL File Number	• E162823		
Appearance	• Clear/Transparent		
Processing Method	• Blow Molding	• Extrusion	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity [2]	0.902		ASTM D792
Density (73°F)	0.900	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.6	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.6	g/10 min	ISO 1133
Molding Shrinkage (73°F)	1.5 to 2.0	%	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)	121000	psi	ASTM D790
Flexural Modulus (73°F)	121000	psi	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
73°F, 0.125 in	1.5	ft·lb/in	
73°F, 0.157 in	1.5	ft·lb/in	
Notched Izod Impact Strength			ISO 180
73°F, 0.125 in	37	ft·lb/in²	
73°F, 0.157 in	37	ft·lb/in²	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	85		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	85		ISO 2039-2

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load [4] (66 psi, Unannealed, 0.250 in)	185	°F	ASTM D648
Deflection Temperature Under Load [4] (66 psi, Unannealed, 0.250 in)	185	°F	ISO 75-2/B

Processing Information

Injection	Nominal Value	Unit
Mold Temperature	86 to 122	°F
Injection Pressure	569 to 1280	psi

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

[2] 23°C

[3] 2.0 in/min

[4] 120°C/h