TAIRIPRO® K4038

Formosa Chemicals & Fibre Corporation - *Polypropylene Random Copolymer*

General Information

Product Description			
Injection Molding Features: High fluidity, Anti-static, Good Transparency			
General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Antistatic • Good Clarity	• High Flow • Random Copolymer	
Uses	• Film		
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		

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)	38	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	38	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)	4120	psi	ASTM D638
Tensile Stress (73°F)	4060	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)	156000	psi	ASTM D790
Flexural Modulus (73°F)	156000	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
73°F, 0.157 in	0.92	ft·lb/in	
73°F, 0.250 in	0.92	ft·lb/in	
Notched Izod Impact Strength			ISO 180
73°F, 0.125 in	23	ft·lb/in²	
73°F, 0.157 in	23	ft·lb/in²	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 73°F)	90		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	90		ISO 2039-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load [4] (66 psi, Unannealed, 0.250 in)	203	°F	ASTM D648
Deflection Temperature Under Load [4] (66 psi, Unannealed, 0.250 in)	203	°F	ISO 75-2/B

Processing Information

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