TAIRIPRO® K8009

Formosa Chemicals & Fibre Corporation - *Polypropylene Impact Copolymer*

General Information

Product Description			
Injection Molding Features: High impact strength, Good fluidity			
General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Good Flow	• High Impact Resistance	• 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/cm³	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)	3270	psi	ASTM D638
Tensile Stress (73°F)	3190	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
-4°F, 0.157 in	1.4	ft·lb/in	
73°F, 0.125 in	7.3	ft·lb/in	
Notched Izod Impact Strength			ISO 180
0°F, 0.157 in	35	ft·lb/in²	
73°F, 0.125 in	190	ft·lb/in²	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 73°F)	80		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	80		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
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.06 in, All Color)	HB		UL 94

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