General Information

Product Description

Injection Molding

Features: High fluidity, Good stiffness, Good luster

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Good Stiffness	• High Flow	• Homopolymer
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
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)	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)	1.4 to 1.8	%	Internal Method

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [3] (73°F)	4840	psi	ASTM D638
Tensile Stress (73°F)	4790	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)	199000	psi	ASTM D790
Flexural Modulus (73°F)	2.03E+6	psi	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
73°F, 0.125 in	0.37	ft·lb/in	
73°F, 0.157 in	0.37	ft·lb/in	
Notched Izod Impact Strength			ISO 180
73°F, 0.125 in	0.95	ft·lb/in²	
73°F, 0.157 in	0.95	ft·lb/in²	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	102		ASTM D785
Rockwell Hardness (R-Scale, 73°F)	102		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	1140 to 1710	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