Formolene® 6575N

Tuesday, November 5, 2019

Formosa Plastics Corporation, U.S.A. - Polypropylene Impact Copolymer

General Information

Product Description

Formolene® 6575N is a very high melt flow, high impact copolymer polypropylene. It is designed for injection applications in rigid packaging, industrial, consumer and transportation requiring good impact strength especially in cold temperatures. It is characterized by easy mold flow, excellent physical property balance and finished product dimensional stability.

Material has been approved under automotive specification - Toyota TSM 5514G Class 3B.

Formolene® 6575N meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles and components of articles intended for direct food contact.

This material is free of animal-derived content.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• Food Contact Acceptable • Good Dimensional Stability • Good Mold Release	• High Flow • Impact Copolymer • Medium Impact Resistance	• No Animal Derived Components
Uses	• Consumer Applications	• Household Goods	• Packaging
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Automotive Specifications	• TOYOTA TSM 5514G-3B		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	75	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	3340	psi	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	6.0	%	ASTM D638
Flexural Modulus - 1% Secant [3] (Injection Molded)	155000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256A
32°F	1.2	ft·lb/in	
73°F	3.0	ft·lb/in	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, Injection Molded)	89		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	214	°F	

Notes

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

[2] 2.0 in/min

[3] 0.051 in/min