Formolene® 4141T

Formosa Plastics Corporation, U.S.A. - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

Formolene® 4141T is a high melt flow homopolymer designed for injection and compounding usage requiring very high isotacticity.

Its high crystalinity provides high flexural modulus along with optimal properties of tensile strength and elongation.

These characteristics make it an excellent choice for applications in automotive, appliance and compounding markets.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• Food Contact Acceptable • Good Optical Properties • High Elongation	• High Flow • High Isotactic • High Tensile Strength	• Highly Crystalline • Homopolymer
Uses	• Appliances	• Automotive Applications	• Compounding
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Forms	• Pellets		
Processing Method	• Compounding	• 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)	35	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	5660	psi	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	7.0	%	ASTM D638
Flexural Modulus - 1% Secant [3] (Injection Molded)	240000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, Injection Molded)	0.51	ft·lb/in	ASTM D256A

Notes

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

[2] 2.0 in/min

[3] 0.051 in/min