



Formolene® 4142R

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

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General Information

Product Description

Formolene® 4142R is a polypropylene homopolymer with fast cycle time and easy mold release. It has use in injection molded applications including appliances, closures and thin wall programs. It contains a unique combination of stabilizers and additives, including nucleation and antistat which provides excellent processability and good end use performance.

Formolene® 4142R 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		
Additive	• Antistatic	• Nucleating Agent	• Unspecified Stabilizer
Features	• Antistatic • Fast Molding Cycle • Food Contact Acceptable	• Good Mold Release • Good Processability • Homopolymer	• No Animal Derived Components • Nucleated
Uses	• Appliances	• Closures	• Thin-walled Parts
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	20	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)	260000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, Injection Molded)	0.60	ft-lb/in	ASTM D256A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	105		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	259	°F	ASTM D648

Notes

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

² 2.0 in/min

³ 0.051 in/min