

# Formolene® 4142R

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

Message:

Formolene® 4142R is a highly isotactic, 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 all 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.

General Information			
UL YellowCard	E205741-228222		
Additive	Antistatic		
	Nucleating Agent		
	Unspecified Stabilizer		
Features	Antistatic		
	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Mold Release		
	Good Processability		
	High Isotactic		
	Homopolymer		
	Nucleated		
Uses	Appliances		
	Closures		
	Thin-walled Parts		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, Injection Molded)	40.0	MPa	ASTM D638

Tensile Elongation <sup>2</sup> (Yield, Injection Molded)	6.5	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (Injection Molded)	1860	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	126	°C	ASTM D648
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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#### Recommended distributors for this material

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