

Formolene® 4100P

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

Message:

Homopolymer for General Purpose Injection Molding

Formolene® 4100P is a highly isotactic polypropylene homopolymer designed for general purpose injection molding applications including closures, small appliances, housewares and toys. It contains a unique combination of stabilizers, which provides excellent processability with good stiffness, environmental stress crack resistance, heat performance and minimal odor & taste.

Formolene® 4100P 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	E205741-228219		
Additive	Unspecified Stabilizer		
Features	Food Contact Acceptable		
	General Purpose		
	Good Processability		
	Good Stiffness		
	High ESCR (Stress Crack Resist.)		
	High Heat Resistance		
	High Isotactic		
	Homopolymer		
	Low to No Odor		
	Low to No Taste		
Uses	Appliances		
	Closures		
	General Purpose		
	Household Goods		
	Toys		
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 ³	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, Injection Molded)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Injection Molded)	33.8	MPa	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	8.0	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	100	°C	ASTM D648
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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