Formolene® 4100N

Polypropylene Homopolymer

Formosa Plastics Corporation, U.S.A.

Message:

Formolene® 4100N is a medium viscosity, highly isotactic, polypropylene homopolymer designed for various general purpose injection molding applications such as 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® 4100N 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	E205741-228218		
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 Medium Viscosity		
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/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	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)	33.1	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)	32	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	100	°C	ASTM D648

NOTE	
1.	50 mm/min
2.	50 mm/min
3.	1.3 mm/min

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China