

# Formolene® 5181K

Polypropylene Homopolymer

Formosa Plastics Corporation, U.S.A.

## Message:

Formolene® 5181K is a high molecular weight, highly isotactic, polypropylene homopolymer containing anti-stat designed for straws and cutlery. It contains a unique combination of stabilizers, which give it process stability and good end use performance.

Formolene® 5181K 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			
Additive	Antistatic		
	Unspecified Stabilizer		
Features	Antistatic		
	Food Contact Acceptable		
	Good Processing Stability		
	High Isotactic		
	High Molecular Weight		
	Homopolymer		
Uses	Drinking Straws		
	Table Products		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Extrusion		
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)	5.0	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 <sup>1</sup> (Yield, Injection Molded)	33.1	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (Injection Molded)	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method


Notched Izod Impact (23°C, Injection Molded)	37	J/m	ASTM D256
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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