

# Formolene® HP5221

High Density Polyethylene

Formosa Plastics Corporation, U.S.A.

## Message:

Formolene® HP5221 is a high performance copolymer that is designed for the most demanding requirements of corrugated pipe applications. Formolene® HP5221 meets the requirements of the PPI third party certification program for use in AASHTO M 294 corrugated pipe.

General Information			
Features	Hexene Comonomer		
Uses	Agricultural Applications		
	Corrugated Pipe		
	Piping		
Agency Ratings	AASHTO M294		
	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.10	g/10 min	
190°C/21.6 kg	21	g/10 min	
Environmental Stress-Cracking Resistance			
Compression Molded <sup>1</sup>	> 24.0	hr	ASTM F2136
100% Igepal, Compression Molded, F50	150	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield, Compression Molded)	26.9	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, Compression Molded)	> 600	%	ASTM D638
Flexural Modulus (Compression Molded)	1240	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -90.0	°C	ASTM D746
NOTE			
1.	NCLS		
2.	Type IV, 50 mm/min		
3.	Type IV, 50 mm/min		

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## 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



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