

## Formosa Plastics Formolene® HP3902 Pipe HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Pipe Grade

### Material Notes:

Natural Medium Density Hexene Copolymer Applications: Pipe for gas distribution, oilfield and other industrial pipe, telecommunications conduit. Formolene HP3902 is a high performance copolymer that is designed for pressure pipe and conduit applications. It has outstanding pipe ring ESCR and it incorporates a UV stabilizer. Produced using licensor formulation for HHM TR-418N. Licensor does not warrant or imply that this product meets their specifications for HHM TR-418N. Formolene HP3902 meets all the requirements of ASTM D4976-PE225. It also meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520 for food packaging. Nominal properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D1928. Physical properties are typical of product but do not reflect normal testing variance and therefore should not be used for specification purposes. Information provided by Formosa Plastics Corporation, USA.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Formosa-Plastics-Formolene-HP3902-Pipe-HDPE.php](http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-HP3902-Pipe-HDPE.php)

Physical Properties	Metric	English	Comments
Density	0.939 g/cc	0.0339 lb/in <sup>3</sup>	ASTM D1505
Environmental Stress Crack Resistance	>= 5000 hour	>= 5000 hour	Condition A,B,C (100% Igepal), F<sub>50</sub>; ASTM D1693
Melt Flow	0.20 g/10 min @Load 2.16 kg, Temperature 190 °C	0.20 g/10 min @Load 4.76 lb, Temperature 374 °F	Condition E; ASTM D1238
High Load Melt Index	20 g/10 min @Load 21.6 kg, Temperature 190 °C	20 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
PENT	>= 1000 hour	>= 1000 hour	ASTM F1473
Tensile Strength at Break	33.1 MPa	4800 psi	2" (50mm) per min.; ASTM D638 Type IV
Tensile Strength, Yield	19.3 MPa	2800 psi	2" (50mm) per min.; ASTM D638 Type IV
Elongation at Break	>= 500 %	>= 500 %	2" (50mm) per min.; ASTM D630 Type IV
Flexural Modulus	0.621 GPa	90.0 ksi	ASTM D3350
	0.758 GPa	110 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
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Brittleness Temperature Thermal Properties	$\leq -90.0$ °C Metric	$\leq -130$ °F English	ASTM D746 Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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