

## Ipiranga Petrochem GP 100 BK HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

**Material Notes:**

The resin GP 100 BK is a high density polyethylene compounding with high molar mass, specially developed for the manufacturing of extruded pipes for gas distribution. It is produced with bimodal technology, has excellent mechanical properties and very high stress cracking resistance and resistance to internal pressure. Applications: Pressure pipes for gas distribution

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ipiranga-Petrochem-GP-100-BK-HDPE.php](http://www.lookpolymers.com/polymer_ipiranga-Petrochem-GP-100-BK-HDPE.php)

Physical Properties	Metric	English	Comments
Density	0.960 - 0.962 g/cc	0.0347 - 0.0348 lb/in <sup>3</sup>	ASTM D792-00
ESCR 100% Igepal <sup>®</sup>	>= 1000 hour	>= 1000 hour	ASTM D1693-01
Melt Flow	6.1 - 7.5 g/10 min	6.1 - 7.5 g/10 min	ASTM D1238-04
	0.16 - 0.22 g/10 min	0.16 - 0.22 g/10 min	ASTM D1238-04
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	10.0 MPa	1450 psi	ISO 9080-03
Flexural Modulus	0.880 GPa	128 ksi	2% secant; ASTM D790-02
Izod Impact, Notched	2.75 J/cm	5.15 ft-lb/in	ASTM D256-03

Descriptive Properties	Value	Comments
Slow Crack Growth (h)	>165	

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