

## PolyOne Maxxam™ DP 9052-3-1000 Polyethylene, High Density (HDPE)

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

### Material Notes:

PolyOne's Maxxam™ family of polypropylene- and polyethylene-based products covers a wide range of applications, markets and performance requirements. Standard grades are compounded with calcium carbonate, glass and talc to provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance. Custom grades are available with features such as UV stabilizers, heat stabilizers, custom color, high impact, etc. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Maxxam-DP-9052-3-1000-Polyethylene-High-Density-HDPE.php](http://www.lookpolymers.com/polymer_PolyOne-Maxxam-DP-9052-3-1000-Polyethylene-High-Density-HDPE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Melt Flow	7.0 g/10 min @Load 21.6 kg, Temperature 190 °C	7.0 g/10 min @Load 47.6 lb, Temperature 374 °F	Procedure A; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	29.6 MPa	4290 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 51 mm/min; ASTM D638
Flexural Strength	40.0 MPa	5800 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.993 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	102 °C @Thickness 3.18 mm	216 °F @Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	61.0 °C @Thickness 3.18 mm	142 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Mold Temperature	16.0 - 50.0 °C	60.8 - 122 °F	

Descriptive Properties	Value	Comments
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<b>Appearance</b> Descriptive Properties	<b>Natural Color</b> Value	Comments
Features	General Purpose	
Filler / Reinforcement	Glass Fiber Reinforcement	
	Unspecified FillerReinfor., 15% Filler by Weight	
Forms	Pellets	
Generic Material	HDPE	
Generic Name	Polyethylene, High Density (HDPE)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Automotive Applications	
	Construction Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China