Maxxam™ DP 9052-3-1000

High Density Polyethylene

PolyOne Corporation

Technical Data

Product Description
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.

General			
Material Status	• Commercial: Active		
Literature [1]	• Technical Datasheet		
Search for UL Yellow Card	• PolyOne Corporation • Maxxam™		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Filler / Reinforcement	• Glass Fiber Reinforcement	• Unspecified Filler\Reinfor., 15% Filler by Weight	
Features	• General Purpose		
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) [3] (190°C/21.6 kg)	7.0	g/10 min	ASTM D1238

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [4] (Yield)	29.6	MPa	ASTM D638
Tensile Elongation [4] (Break)	4.0	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength	40.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
23°C, 3.18 mm, Injection Molded	53	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed, 3.18 mm	102	°C	
1.8 MPa, Unannealed, 3.18 mm	61.0	°C	

Injection	Nominal Value	Unit
Mold Temperature	16.0 to 50.0	°C

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] Typical properties: these are not to be construed as specifications.

[3] Procedure A

[4] Type I, 51 mm/min