

Maxxam™ PPH-20G Black

Polypropylene Homopolymer

PolyOne Corporation

Message:

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 Information | | | |
|--|---|--------------------|-------------|
| UL YellowCard | E76261-101413513 | | |
| Filler / Reinforcement | Filler,20% Filler by Weight Glass Fiber | | |
| Features | General Purpose Homopolymer | | |
| Uses | Automotive Applications Construction Applications Consumer Applications General Purpose Industrial Applications | | |
| Appearance | Black | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.04 | g/cm ³ | ASTM D792 |
| Specific Volume | 0.961 | cm ³ /g | ASTM D792 |
| Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg) | 5.0 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.10 to 0.40 | % | ASTM D955 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 99 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² (Yield) | 57.6 | MPa | ASTM D638 |
| Tensile Elongation ³ (Break) | 9.0 | % | ASTM D638 |
| Flexural Modulus | 3590 | MPa | ASTM D790 |
| Flexural Strength | 81.7 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm, Injection Molded) | 53 | J/m | ASTM D256A |

| Thermal | Nominal Value | Unit | Test Method |
|-----------------------------------|-------------------|------|-------------|
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed, 3.18 mm | 157 | °C | |
| 1.8 MPa, Unannealed, 3.18 mm | 139 | °C | |
| Flammability | Nominal Value | | Test Method |
| Flame Rating (1.50 mm, ALL) | HB | | UL 94 |
| Injection | Nominal Value | Unit | |
| Mold Temperature | 16.0 to 50.0 | °C | |
| NOTE | | | |
| 1. | Procedure A | | |
| 2. | Type I, 51 mm/min | | |
| 3. | Type I, 51 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

