

# Maxxam™ FR QD 813.Y001-1000 RoHS

Polypropylene  
PolyOne Corporation

Message:

Maxxam™ FR flame-retardant polyolefin compounds and masterbatches meet stringent flammability performance requirements defined by industry agencies, including Underwriters Laboratories UL 94 V-2, V-0, and 5VA performance ratings. In addition, many compounds in the Maxxam FR portfolio offer elevated Relative Thermal Index (RTI) ratings.

| General Information   |                             |                    |             |
|---|-----------------------------|--------------------|-------------|
| Filler / Reinforcement  | Filler,30% Filler by Weight |                    |             |
|   | Glass Fiber                 |                    |             |
| Features  | Flame Retardant             |                    |             |
|   | High Impact Resistance      |                    |             |
| Forms   | Pellets                     |                    |             |
| Physical  | Nominal Value               | Unit               | Test Method |
| Specific Gravity  | 1.46                        | g/cm <sup>3</sup>  | ASTM D792   |
| Specific Volume   | 0.715                       | cm <sup>3</sup> /g | ASTM D792   |
| Melt Mass-Flow Rate (MFR) <sup>1</sup> (230°C/2.16 kg)            | 4.0                         | g/10 min           | ASTM D1238  |
| Molding Shrinkage - Flow  | 0.10 to 0.30                | %                  | ASTM D955   |
| Outdoor Suitability (All Colors)                                  | f1                          |                    | UL 746C     |
| Mechanical  | Nominal Value               | Unit               | Test Method |
| Tensile Strength <sup>2</sup> (Yield)                             | 44.8                        | MPa                | ASTM D638   |
| Tensile Elongation <sup>3</sup> (Break)                           | 7.0                         | %                  | ASTM D638   |
| Flexural Modulus  | 4690                        | MPa                | ASTM D790   |
| Flexural Strength   | 68.9                        | MPa                | ASTM D790   |
| Impact  | Nominal Value               | Unit               | Test Method |
| Notched Izod Impact (23°C, 3.18 mm, Injection Molded)             | 190                         | J/m                | ASTM D256A  |
| Thermal   | Nominal Value               | Unit               | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.18 mm) | 150                         | °C                 | ASTM D648   |
| Flammability  | Nominal Value               |                    | Test Method |
| Flame Rating  |                             |                    | UL 94       |
| 1.50 mm, All Colors   | V-0                         |                    |             |
|   | V-0                         |                    |             |
| 2.00 mm, All Colors   | 5VA                         |                    |             |

3.00 mm, All Colors

5VA

## NOTE

- |    |                    |
|----|--------------------|
| 1. | Procedure A        |
| 2. | Type I, 5.1 mm/min |
| 3. | Type I, 51 mm/min  |

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