

# Qenos PE GF7660

High Density (MMW) Polyethylene

Qenos Pty Ltd

Message:

GF7660 is a medium molecular weight extrusion blow moulding grade of High Density Polyethylene. This grade exhibits good ESCR and good toughness. GF7660 is designed primarily for extrusion blow moulding of small to medium sized containers. Typical applications include detergent and pharmaceutical bottles. Suitability for use in any application should be determined by appropriate performance testing. GF7660 is suitable for food contact applications and conforms to the requirements of the United States Food and Drug Administration CFR 21 177.1520, paragraph (c) item 3.1.

| General Information                      |                                  |                   |             |
|--|----------------------------------|-------------------|-------------|
| Features                                 | Food Contact Acceptable          |                   |             |
|  | Good Toughness                   |                   |             |
|  | High ESCR (Stress Crack Resist.) |                   |             |
|  | Medium Molecular Weight          |                   |             |
| Uses                                     | Bottles                          |                   |             |
|  | Containers                       |                   |             |
| Agency Ratings                           | FDA 21 CFR 177.1520(c) 3.1       |                   |             |
| Forms                                    | Pellets                          |                   |             |
| Processing Method                        | Extrusion Blow Molding           |                   |             |
| Physical                                 | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                         | 0.953                            | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR)                |                                  |                   | ASTM D1238  |
| 190°C/2.16 kg                            | 0.40                             | g/10 min          |             |
| 190°C/5.0 kg                             | 1.6                              | g/10 min          |             |
| Environmental Stress-Cracking Resistance | 200                              | hr                | ASTM D1693B |
| Mechanical                               | Nominal Value                    | Unit              | Test Method |
| Tensile Strength (Yield)                 | 30.0                             | MPa               | ASTM D638   |
| Flexural Modulus                         | 1200                             | MPa               | ASTM D790   |
| Impact                                   | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (-30°C)              | 950                              | J/m               | ASTM D256A  |

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