

# FHR Polypropylene P9M7R-056

Polypropylene Homopolymer

Flint Hills Resources, LP

Message:

DESCRIPTION: Specialty Homopolymer  
FEATURES: Clarified, e-beam and Gamma radiation sterilizable and Autoclavable. Product does not contain animal derived components. Phthalate-free.  
APPLICATIONS: Injection molding: Labware, Pipette tips

| General Information                       |                              |                   |             |
|-------------------------------------------|------------------------------|-------------------|-------------|
| Additive                                  | Clarifier                    |                   |             |
| Features                                  | Autoclave Sterilizable       |                   |             |
|                                           | E-beam Sterilizable          |                   |             |
|                                           | High Clarity                 |                   |             |
|                                           | Homopolymer                  |                   |             |
|                                           | No Animal Derived Components |                   |             |
|                                           | Non-Phthalate Plasticizer    |                   |             |
|                                           | Radiation Sterilizable       |                   |             |
| Uses                                      | Labware                      |                   |             |
| Agency Ratings                            | DMF Unspecified Rating       |                   |             |
|                                           | FDA 21 CFR 177.1520(c) 1.1a  |                   |             |
|                                           | ISO 10993 Part 5             |                   |             |
|                                           | USP 661                      |                   |             |
|                                           | USP 85                       |                   |             |
|                                           | USP 88                       |                   |             |
|                                           | USP Class VI                 |                   |             |
| RoHS Compliance                           | Contact Manufacturer         |                   |             |
| Forms                                     | Pellets                      |                   |             |
| Processing Method                         | Injection Molding            |                   |             |
| Physical                                  | Nominal Value                | Unit              | Test Method |
| Density                                   | 0.900                        | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 55                           | g/10 min          | ASTM D1238  |
| Hardness                                  | Nominal Value                | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 103                          |                   | ASTM D785   |
| Mechanical                                | Nominal Value                | Unit              | Test Method |
| Tensile Strength (Yield)                  | 33.0                         | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                | 9.5                          | %                 | ASTM D638   |
| Flexural Modulus - 1% Secant              | 1200                         | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                | Unit              | Test Method |

|                                                          |               |      |             |
|----------------------------------------------------------|---------------|------|-------------|
| Notched Izod Impact (23°C)                               | 37            | J/m  | ASTM D256   |
| Thermal                                                  | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 105           | °C   | ASTM D648   |

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