ENGINEERING SPECIFICATION NO. M 9586-1

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SUBJECT MATERIAL
TITLE POLYPROPYLENE THERMOPLASTIC RESIN - NATURAL

1.0 SCOPE: This specification covers the requirements for specifying significant properties of an injection molding grade Polypropylene resin. The system comprises a non filled - non pigmented resin suitable for fabricating parts.

2.0 PROPERTIES:

2.1 Material Description:
Resin - - - - - - Polypropylene
Filler - - - - - - None
Flammability - FMVSS 302 - - 1.2 max.
inches/min.
Color - - - - - - Natural

2.2 Physical Properties:
Specific Gravity D 792 0.90 - 0.91
Specific Volume (cu in/lb) D 792 26.0 - 26.4
Tensile Strength, psi D 638 4100 min.
Izod Impact (Notched) Method A
(ft-lbs/inch of notch) D 256 1.0 min.
Rockwell Hardness "R" D 785 95 - 102
Heat Deflection at 264 psi (1/8" x 1/8" x 5"
unannealed) D 648 150 F min.
Elongation at 73 F, % D 638 9 min.
Flexural Modulus, psi D 790 1.4 x 10^5 min.

3.0 TESTS: Requirements stated above shall be determined by the latest issue of the ASTM test methods indicated. Specimens shall be conditioned according to ASTM D 618 (Procedure A) prior to all tests. Tests will be conducted in 73 ± 3°F and 50 percent relative humidity unless otherwise specified.

4.0 FORM: Material shall be supplied in cylindrical pellets 1/8" x 1/8".

5.0 FINISH: Does not apply.

6.0 DIMENSIONS AND TOLERANCE: Does not apply.