



TECHNICAL DATA SHEET (TDS)

MDPE MD5293

MEDIUM DENSITY POLYETHYLENE

OVERVIEW: Rotational molding or injection molding, excellent impact strength, stress crack resistance procesability.

Applications: intermediate bulk containers, toys, general purpose custom molding, agricultural storage tanks, marine parts, indoor customer articles.

Complies with the specifications U.S. FDA 21 CFR 177.1640

ADDITIVE: UV stabilization,UV-8 stabilizer package.

| Properties | Test Method | Units | Nominal Values |
|--|-------------|---------|----------------|
| Melt Index (190° C/2.16 Kg) | ASTM D1238 | g/10min | 5.2 |
| Specific Gravity | ASTM D792 | | 0.937 |
| Properties | | | |
| Tensile strength 2 at yield | ASTM D638 | Psi | 2720 |
| 1% Secant 2 Modulus | ASTM D790 B | Psi | 95000 |
| Impact Strength -40°, 0.125 in, Rotational Molded | ARM | ft-lb | 59 |
| Impact Strength -40°, 0.250 in, Rotational Molded | ARM | ft-lb | 188 |
| Deflection Temperature under Load ² (264 psi, Unannealed) | ASTM D648 | °F | 95.0 |
| Deflection Temperature under Load ² (66 psi, Unannealed) | ASTM D648 | °F | 125 |
| Melting Temperature (DSC) | | °F | 257 |

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