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PE-HD / PE 300

PE-HD / PE 300 products are utilized in a range of applications that need high impact resistance, exceptional tensile strength, minimal moisture absorption, good chemical and corrosion resistance, and ease of fabrication and welding. PE-HD / PE 300 components are frequently used in chain guides, orthotic and prosthetic devices, tanks, thermoformed material handling devices, and water storage applications because of their characteristics and properties.

Technical Data Sheet

| Physical properties | Test Standard | Value | Unit |
|----------------------------------|---------------|-------------------|------------------|
| Density | ASTM D792 | 0.96 | g/cm³ |
| Water Absorption | ASTM D570 | <0.10 | % |
| Mechanical properties | Test Standard | Value | Unit |
| Hardness | ASTM D2240 | 65 | Shore D |
| Tensile Strength at yield 23°C | ASTM D638 | 4000 | psi |
| Tensile Modulus | ASTM D638 | 217000 | psi |
| Elongation at Break | ASTM D638 | >700 | % |
| Flexural Strength | ASTM D790 | 210000 | psi |
| Compressive Strength | ASTM D695 | 1500 | psi |
| Coefficient of Friction, Dynamic | - | 0.20-0.29 | - |
| Izod Impact, Notched | ASTM D256 | 3.5 | ft-lb/in |
| Thermal properties | Test Standard | Value | Unit |
| Service Temperature | - | -73 to 82 | $^{\circ}{ m C}$ |
| Melting Point | ASTM D3418 | 131 | °C |
| Vicat Softening Point | ASTM D1525 | 125 | °C |
| Heat Deflection Temperature | ASTM D648 | 77 | °C |
| Brittleness Temperature | ASTM D746 | -75 | °C |
| Flammability, UL94 | - | HB | - |
| Electrical Properties | Test Standard | Value | Unit |
| Surface Resistivity | ASTM D257 | >10 ¹⁴ | Ω/cm |
| Dielectric Constant | ASTM D150 | 2.4 | 1MHz |

Note:

*The data stated above are typical values intended for reference and comparison purposes only.

*The data should not be used as a basis for design specifications or quality control.

*The information is provided as a guide to the best of our knowledge and given without obligation or liability.

*Testing under individual application circumstances is recommended.

