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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℃	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	${\mathbb C}$
Melting Point	ASTM D3418	131	$^{\circ}$
Vicat Softening Point	ASTM D1525	125	$^{\circ}$
Heat Deflection Temperature	ASTM D648	77	$^{\circ}$ C
Brittleness Temperature	ASTM D746	-75	$^{\circ}$ C
Flammability, UL94	-	НВ	-
Electrical Properties	Test Standard	Value	Unit
Surface Resistivity	ASTM D257	>10 <sup>14</sup>	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.