



Densetec Antimicrobial Typical Properties

Formulated with an Antimicrobial Additive to prevent the spread of Bacteria within the product

Properties	ASTM Test Method	Typical Properties	
		English Units	Metric Units
Physical and Mechanical Properties			
Density	D792	58.5 lbs/ft ³	0.954 g/cc
Polyethylene Classification	D4976	Group 2, Class 3, Grade 5	Group 2, Class 3, Grade 5
Mechanical Properties			
Tensile strength @ Yield, MPa (ksi)	D638	4,000 psi	27 MPa
Tensile strength @ Break, MPa (ksi)	D638	5,800 psi	40.0 MPa
Flexural Modulus	D790	200,000 psi	1379 Mpa
Tensile IMPact Strength	D1822	70 ft-lbf/in ²	147 KJ/m ²
Elongation at Break	D638	600%	600%
Notched Izod Impact Strength	D256	No Break ft-lbf/in	No Break J/m
Izod Impact Strength	D4020, Method A	> 28.4 ft-lbf/in ²	> 60 KJ/m ²
Charpy Impact	ISO 11542-2	> 37.9 ft-lbf/in ²	> 80 KJ/m ²
Durometer Hardness	D2240	64 Shore D	64 Shore D
Water Absorption @ Saturation	D570	0.01%	0.01%
Fire Rating	Underwriters Labs	UL94HB	UL94HB
Heat Deflection Temperature @ 66 psi	D648	174 °F	79 °C
Vicat Softening Temperature	D1525	257 °F	125 °C
Brittleness Temperature	D746	< - 120 °F	< - 841 °C
Coefficient of Linear Thermal Expansion	D696	8.3 X 10 ⁻⁵ in/in/°F	1.49 X 10 ⁻⁴ cm/cm/°C
Thermal Conductivity	C177	2.8 Btu-in/h-ft ² -°F	0.39 W/m-°K
Specific Heat	C351 / D150	0.48 Btu/lb/°F	0.62 KJ/Kg/°C

*The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes

*The nominal properties reported herein were determined on compression molded samples prepared in accordance with Procedure C of ASTM D4703, Annex A1.