

Hippe PVC-U Polyvinyl Chloride

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Molded

Material Notes:

Material at reasonable price, high strength. Used in machine construction as covers, pipes, section, façade elements. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PVC-U-Polyvinyl-Chloride.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	DIN 53 479

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	100 MPa @Time 30.0 sec	14500 psi @Time 0.00833 hour	DIN 53 456
Tensile Strength	50.0 MPa	7250 psi	DIN 53 455
Elongation at Break	10 %	10 %	DIN 53 455
Tensile Modulus	1.70 GPa	247 ksi	DIN 53 457
Flexural Modulus	2.80 GPa	406 ksi	from bending test; DIN 53 457
Charpy Impact, Notched	NB	NB	DIN 53 453

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 - 80.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	38.9 - 44.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Specific Heat Capacity	0.850 - 0.900 J/g-°C	0.203 - 0.215 BTU/lb-°F	
Thermal Conductivity	0.140 - 0.170 W/m-K	0.972 - 1.18 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	65.0 °C	149 °F	Continuous use
	100 °C	212 °F	Short Periods
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ISO-R 75 Method A
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ ohm-cm	DIN 53 482, VDE 0303, Part 3

Electrical Properties	Metric ^{14 ohm}	English ^{14 ohm}	Comments
Dielectric Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	DIN 53 483, IEC-250
Dielectric Strength	>= 35.0 kV/mm	>= 889 kV/in	Breakdown; DIN 53 481, IEC-243, VDE 0303 Part 1
Dielectric Loss Index	0.015 @Frequency 1.00e+6 Hz	0.015 @Frequency 1.00e+6 Hz	DIN 53 483, IEC-250

Descriptive Properties	Value	Comments
Color	transp. Opaque black, red/gray	
Creep Resistance	Grade CTI 600	DIN 53 480, IEC-112, VDE 0303 Part 1

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