



Polyurethane Based, Modeling Board Materials VAL-650

Filled polyurethane medium density, good dimensional stability and very good cell structure, easy workable by milling machine, performing good shaving.

Application	<ul style="list-style-type: none"> ● Master models ● Data control models ● Deep drawing tools ● Foundry patterns ● Checking fixture and many more 																		
Key Properties	<ul style="list-style-type: none"> ● Good impact and abrasion resistance ● High compressive and flexural strength ● Easy machinability ● Good edge definition 																		
Physical Data	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;"></th> <th style="text-align: right;">Index</th> </tr> </thead> <tbody> <tr> <td>Density g/cm³ (approx.)</td> <td style="text-align: right;">0.65± 3%</td> </tr> <tr> <td>Color</td> <td style="text-align: right;">Light brown</td> </tr> <tr> <td>Compressive Strength MPa (DIN EN ISO 604)</td> <td style="text-align: right;">15-20</td> </tr> <tr> <td>Flexural strength, (DIN EN ISO 178)</td> <td style="text-align: right;">21-25 N/mm²</td> </tr> <tr> <td>Linear Thermal Expansion Co-efficient</td> <td style="text-align: right;">55-60 x10^{-6k-1}</td> </tr> <tr> <td>Abrasion resistance, Taber value</td> <td style="text-align: right;">1000-1100mm³</td> </tr> <tr> <td>Shore D (DIN 53505)</td> <td style="text-align: right;">69</td> </tr> <tr> <td>Heat distortion, ISO 75</td> <td style="text-align: right;">83°C</td> </tr> </tbody> </table>		Index	Density g/cm ³ (approx.)	0.65± 3%	Color	Light brown	Compressive Strength MPa (DIN EN ISO 604)	15-20	Flexural strength, (DIN EN ISO 178)	21-25 N/mm ²	Linear Thermal Expansion Co-efficient	55-60 x10 ^{-6k-1}	Abrasion resistance, Taber value	1000-1100mm ³	Shore D (DIN 53505)	69	Heat distortion, ISO 75	83°C
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Storage	Boards, finished tools and models should be stored flat in dry conditions. Temperature variations should be kept as moderate as possible.																		
Handling & Precaution	Valpolymer products are generally quite harmless to handle provided that certain precautions normally taken when handling chemicals are observed.																		

Available dimension (length x wide x thickness/mm):

1500 X 500 X 50
1500 x 500 x 75
1500 x 500 x 100

www.val-tool.com

Valpolymer S.r.l

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