



MD UV Adhesive 22

September 16

high viscous	
Properties of uncured material	
Base	Acrylated urethane
Colour	transparent
Viscosity 20°C	2.500-5.000 mPa.s
Specific gravity at 25°C	1,13
Refractive Index	1,48
Stress cracking, ASTM D 3929, minutes	
7 N/m ² stress on bar	>15
UV fixture time, ISO 4587, Polycarbonate sec.	≤20
UV curing time	6-10 seconds
Physical properties of cured material	
Shore Hardness, ISO 868, Durometer D	55
Refractive Index	1,5
Water Absorption, ISO 62, % 2 hours in boiling water	2,61
Elongation, at break, ISO 527	265 %
Tensile Modulus, ISO 527	N/mm ² 297 (psi) (43000)
Tensile Strength, at break, ISO 527	N/mm ² 18 (psi) (2600)
Temperature resistance	-40°C til 125°C
Electrical Properties	
Surface Resistivity, IEC 60093, Ω cm	9,0 x10 ¹⁴
Volume Resistivity, IEC 60093, Ω cm	8,7x10 ¹⁴
Dielectric Breakdown Strength, IEC 60250, kV/mm	25
Dielectric constant/Dissipation Factor, IEC 60250	
100-Hz	5,39/0,05
1-kHz	5,23/0,02
1-MHz	4,86/0,04
The values are average values. They serve merely for your information, but assume no warranty.	

Bergheimer Str. 15 | D-53909 Zülpich | Tel. 02252/94150 | info@marston-domsel.de
www.marston-domsel.de



Performance of cured material				
Cured at 30 mW/cm ² @ 365 nm for 80 seconds using a metal halide light source				
Lap Shear strength, ISO 4587				
Polycarbonate: 0,5 mm gap		N/mm ² 11,7 (psi) (1.700)		
Chemical/Solvent Resistance				
Aged under conditions indicated and tested @22°C				
% of initial strength				
Environment		2h	24h	170h
Boiling water	100°C	75h	-	-
Water immersion	49°C	-	-	60
IPA immersion	21°C	-	95	-
Heat/humidity	38°C	-	-	80
Applications	<ul style="list-style-type: none"> ○ Communications electronics ○ Consumer electronics ○ Automotive electronics ○ Plastic and glass processing 			
Description				
<p>MD UV adhesives react via radiation from UV light. It then hardens within seconds. We achieve clear, high-strength bonding of materials such as glass with metal. The technique of UV hardening offers the benefit of being able to freely choose the time of hardening and short hardening times permit a higher production speed. Specific viscosities are available for every type of application.</p>				
Packaging		Item number		
10 bottles á 50 g		MUV.22.F50		
12 bottles á 250 g		MUV.22.F250		

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