

| Ref | Color | Index | Viscosity in Pa.s | Hardness in Shores D | Density in g/cm ³ | Adhesion on | | | Modulus of elasticity in kg/cm ² | Tensile strength kg/cm ² | Elongation in % | Comments |
|-----|-------|-------|-------------------|----------------------|------------------------------|-------------|-------|---------|---|-------------------------------------|-----------------|----------|
| | | | | | | Glass | Metal | Plastic | | | | |

UV CURING ADHESIVES*

| | | | | | | | | | | | | |
|---------|-----------|------|------------|-------------|------|-----|-----|-----|-------|-----|-----|---|
| NOA 60 | Clear | 1,56 | 0,3 | 80 | 1,15 | ++ | ++ | + | 10000 | 200 | 35 | General purpose adhesive for bonding doublets, prisms |
| NOA 61 | Clear | 1,56 | 0,3 | 85 | 1,13 | +++ | +++ | + | 10500 | 200 | 38 | Military applications - Bonding doublets, prisms. Low shrinkage |
| NOA 63 | Clear | 1,56 | 2 | 85 | 1,12 | ++ | ++ | + | 16800 | 300 | 6 | Thick bonding - Good transmission UV |
| NOA 65 | Clear | 1,52 | 1,2 | 50 | 1,12 | ++ | ++ | + | 1400 | 105 | 80 | Flexible adhesive suitable for low strain applications |
| NOA 68 | Clear | 1,54 | 5 | 60 | 1,12 | +++ | ++ | +++ | 1400 | 150 | 80 | Flexible adhesive - Glass, plastic, CAB, polycarbonate and acrylic |
| NOA 68T | Clear | 1,54 | 20 | 50 | 1,12 | +++ | ++ | +++ | --- | --- | --- | High viscosity - Flexible adhesive - Glass, plastic, CAB, polycarbonate and acrylic |
| NOA 71 | Clear | 1,56 | 0,2 | 80 | 1,1 | +++ | +++ | + | 3850 | 90 | 43 | Bonding glass/glass and glass/metal |
| NOA 73 | Clear | 1,56 | 0,13 | 55 | 1,1 | +++ | ++ | + | 112 | 10 | 16 | Flexible adhesive - Low viscosity, very thin film |
| NOA 74 | Clear | 1,56 | 0,1 | 30 | 1,1 | +++ | ++ | +++ | 203 | 15 | 10 | Flexible adhesive - Thin film |
| NOA 81 | Clear | 1,56 | 0,3 | 85 | 1,13 | +++ | +++ | + | 14000 | 200 | 25 | Fast curing - Bonding glass/metal - hardness |
| NOA 84 | Clear | 1,46 | 0,04-0,075 | 55 | 1,1 | +++ | + | +++ | 80 | 45 | 55 | Low refractive index. Bonding plastic/plastic |
| NOA 88 | Clear | 1,56 | 0,2 | 85 | 1,1 | +++ | +++ | + | 7840 | 130 | 43 | Low outgassing adhesive for aerospace applications - Excellent transmission in UV range |
| NOA 89 | Clear | 1,56 | 0,02 | 40 | 1,13 | +++ | ++ | + | --- | --- | --- | Low viscosity - Bonding glass to glass or coating |
| OAD 423 | Colorless | 1,52 | 10 | 50 | 1 | ++ | +++ | + | --- | 30 | 120 | Flexible adhesive - Bonding optical fiber |
| OAD 424 | Colorless | 1,52 | 10,5 | 85 | 1,1 | ++ | +++ | + | --- | 150 | 20 | Rigid - Bonding optical fiber |
| OAD 427 | Colorless | 1,52 | 5 | 80 | 1,1 | ++ | +++ | + | --- | --- | 100 | Rigid - Bonding glass/glass |
| OAD 450 | Colorless | 1,56 | 2,5 | 70 | 1,1 | +++ | ++ | + | --- | 150 | 100 | Fast cure - For lenses |
| OAD 452 | Colorless | 1,56 | 2,5 | 65 | 1,1 | +++ | ++ | + | --- | 150 | 100 | Fast cure - For lenses and LED encapsulation |
| OAD061 | Clear | 1,56 | 0,35 | 80 | 1,1 | +++ | +++ | + | --- | 200 | 35 | For lenses |
| DOP100 | Clear | 1,41 | 5 | 70 Shores A | 1,1 | +++ | +++ | +++ | 140 | 29 | 328 | Low refractive index - Bonding optical fiber |

UV / VISIBLE CURING ADHESIVES*

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|---------|-------|------|---------|----|-----|-----|----|-----|-----|----|----|--|
| NOA 72 | Clear | 1,56 | 0,15 | 75 | 1,1 | +++ | ++ | +++ | 168 | 30 | 34 | Low viscosity - Bonding glass, plastic, polycarbonate, CAB - UV or Visible light |
| NOA 75 | Clear | 1,52 | 0,1 | 25 | 1,1 | +++ | ++ | +++ | 182 | 11 | 7 | Flexible adhesive - Very low viscosity, very thin film - UV or Visible light |
| NOA 76A | Clear | 1,51 | 3,5-5,5 | 30 | 1,1 | +++ | ++ | +++ | 50 | 30 | 47 | Bonding plastic/plastic - UV or Visible light |
| NOA 78 | Clear | 1,50 | 10 | 55 | 1,1 | +++ | ++ | +++ | 60 | 40 | 57 | Bonding plastic/plastic - UV or Visible light - High viscosity |

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|-----|-------|-------|-------------------|----------------------|------------------------------|--------------|-------|---------|---|-------------------------------------|-----------------|----------|
| | | | | | | Glass | Metal | Plastic | | | | |

UV AND / HEAT CURING ADHESIVES*

| | | | | | | | | | | | | |
|------------|-------------|------|------|----|-----|-----|-----|-----|-------|------|------|--|
| NOA 83H | Clear | 1,56 | 0,25 | 80 | 1,1 | +++ | +++ | + | 11200 | 240 | 30 | Fast curing adhesive with UV or heat. Bonding UV opaque materials |
| NEA 121 | Clear | 1,56 | 0,3 | 80 | 1,1 | +++ | +++ | + | 11200 | 200 | 30 | Adhesive for tacking, filling, sealing conformal coating and tamperproofing precision components - Also in red |
| NEA 123 | Clear | ---- | 200 | 60 | 1,1 | +++ | ++ | +++ | 3500 | 200 | 60 | high viscosity - Chip bonding - Broad range of color (red, blue, green) and viscosity |
| NEA 155 | Red | ---- | 150 | 90 | 1,2 | +++ | ++ | +++ | ---- | ---- | ---- | Thixotropic paste for SMD |
| NEA123HGA | Translucent | ---- | 200 | 60 | 1,1 | +++ | ++ | ++ | 22470 | 265 | 25 | Low outgassing |
| NEA123SHGA | Translucent | ---- | 55 | 80 | 1,1 | +++ | ++ | ++ | ---- | 265 | ---- | Low outgassing |

UV CURING RESINS - EPOXY*

| | | | | | | | | | | | | |
|-----------|-----------|------|------|-------------|------|-----|-----|-----|-----|------|------|---|
| OAD 381 | Yellow | ---- | 0,4 | 70 | 1,1 | +++ | + | +++ | --- | 250 | 20 | Low viscosity - Filling of weak cavity |
| OAD 382 | Yellow | ---- | 2,5 | 30 | 1,1 | + | + | +++ | --- | 100 | 60 | Thixotropic - Glob top - Flexible |
| OAD 383 | Grey | ---- | 10 | 70 | 1,5 | +++ | ++ | +++ | --- | 300 | 6 | Thixotropic - Glob top - Rigid - OAD 383UNF : unfilled |
| OAD 384 | Grey | ---- | 9 | 85 | 1,5 | ++ | +++ | +++ | --- | 395 | 1,5 | Glob top - Dam for potting application |
| OAD 385 | Colorless | ---- | 2,2 | 70 | 1,1 | ++ | +++ | ++ | --- | 250 | 10 | Bonding of substrate opaque or not |
| OAD 386 | Grey | ---- | 2,5 | 85 | 1,4 | ++ | ++ | ++ | --- | 400 | 2 | Low viscosity for Dam & Fill application |
| OAD 387 | Grey | ---- | 15 | 85 | 1,4 | ++ | ++ | ++ | --- | 400 | 2 | Thixotropic resin for Dam & Fill application |
| OAD388 | Colorless | ---- | 1,5 | 30 Shores A | 1,1 | ++ | +++ | ++ | --- | --- | --- | Flexible - bonding or glob top of components |
| OAD 393 | Colorless | ---- | 0,2 | 60 | 1,14 | ++ | +++ | ++ | --- | ---- | ---- | For protection - Spin coating |
| OAD 394 | Grey | ---- | 20 | 70 | 1,52 | +++ | +++ | ++ | --- | 395 | 1,5 | Thixotropic - Smart cards |
| OAD 395 | Colorless | ---- | 0,15 | 50 | 1,15 | +++ | +++ | ++ | --- | ---- | ---- | Liquid -Smart cards |
| OAD 395-1 | Yellow | ---- | 0,35 | 80 | 1,1 | ++ | +++ | +++ | --- | 400 | 4 | Filling of weak cavity - Protection of micro-elements |
| DB2001 | Black | ---- | 6 | 80 | --- | +++ | +++ | + | --- | 434 | --- | Protection and glob top of components - UL94v-0 and 94v-1 |

SCREEN VARNISH*

| | | | | | | | | | | | | |
|---------|-------|------|---|-----|-----|-----|-----|-----|------|-----|----|--|
| V691 UV | Blue | ---- | 3 | --- | 1,1 | +++ | ++ | +++ | ---- | 110 | 20 | Protection of flexible circuits - Good adhesion on mylar and polycarbonate |
| V692 UV | Green | ---- | 6 | --- | 1,1 | +++ | +++ | +++ | ---- | 70 | 60 | Protection of flexible circuits - Good adhesion on mylar and polycarbonate |
| V693 UV | Blue | ---- | 8 | --- | 1,3 | +++ | +++ | ++ | ---- | 80 | 40 | Good adhesion on copper, epoxy glass and aluminium. Strippable in sodium hydroxyde |

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| | | | | | | Glass | Metal | Plastic | | | | |

UV CURING ADHESIVES - SPECIAL APPLICATIONS*

| | | | | | | | | | | | | |
|----------------|-------------|------|-----|------|------|------|------|------|------|------|------|---|
| UVS 91 | Translucent | ---- | 100 | 55 | 1,14 | +++ | ++ | +++ | 3150 | 200 | 58 | Screenable past - Bonding and sealing perimeters of liquid crystal displays |
| NBA107 | Clear | 1,51 | 0,3 | 15 | 1,2 | +++ | +++ | + | ---- | ---- | ---- | For cold blocking and temporary bonding of lenses to metal polishing mounts |
| NBA108 | Clear | 1,51 | 0,5 | 25 | 1,2 | +++ | +++ | + | ---- | ---- | ---- | For cold blocking and temporary bonding for heavy grinding or polishing - Stronger than NBA107 - Can be debonded with |
| IML150 | Clear | 1,52 | 1 | ---- | 1,14 | ---- | ---- | ---- | ---- | ---- | ---- | Index matching liquid |
| NCA 130 | Silver | ---- | 10 | ---- | ---- | +++ | ++ | ++ | ---- | ---- | ---- | Electrically conductive adhesive for static dissipation |

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