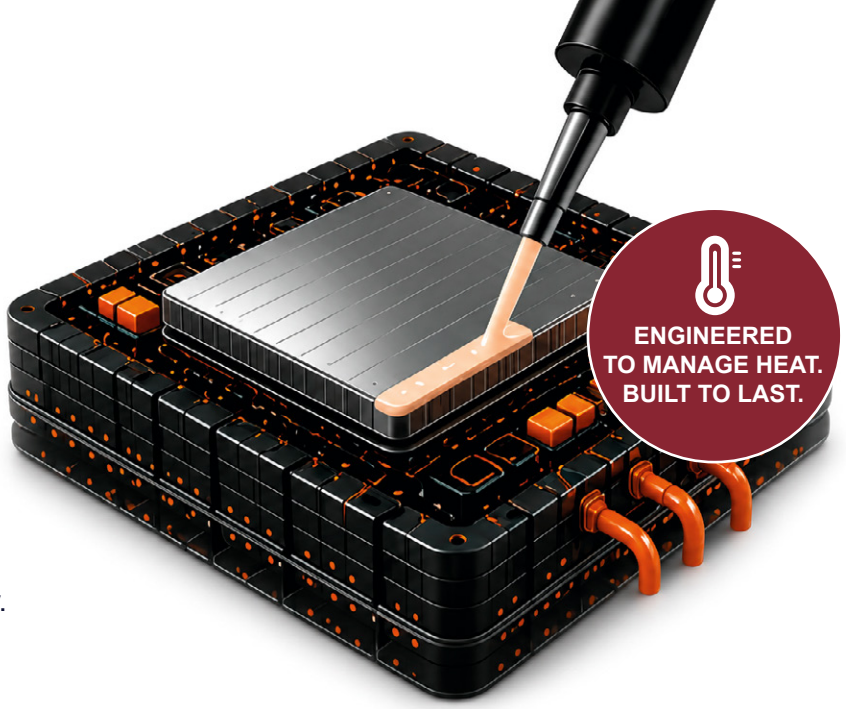
PLEXUS®
POLYURETHANES

THERMOMECHANICAL ADHESIVES

Powering What Moves the World.

Plexus Polyurethanes combine structural bonding with thermal management to simplify designs, improve performance, and accelerate the future of electrification and digitalization across every industry.



BUILT FOR REAL-WORLD PERFORMANCE

THERMAL MANAGEMENT
Conducts heat to protect performance.

STRUCTURAL STRENGTH
Bonds & reinforces for long-term reliability.

VIBRATION & SHOCK RESISTANT
Absorbs stress & movement.

SIMPLIFIES DESIGN
Eliminates pads, fasteners & complex assemblies.

DURABLE BY DESIGN
Resists heat, moisture, chemicals & fatigue.

FROM COMPLEX

- Adhesives
- Thermal Pads
- Fasteners
- Gaskets
- Multiple Steps

TO ONE INTEGRATED SOLUTION

Plexus® Polyurethanes
Thermomechanical Bonding Layer

THE RESULTS

- Faster Assembly
- Fewer Components
- Better Thermal Performance
- Higher Reliability
- Lower Total Cost

ONE MATERIAL. EVERY INDUSTRY. ENDLESS POSSIBILITIES.

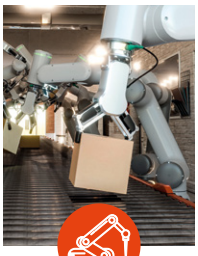
COMMERCIAL VEHICLES & FLEETS
Powering uptime.

TRAILERS & TRANSPORTATION
Stronger bonds. Safer journeys.

AGRICULTURE & OFF-HIGHWAY
Built for harsh environments.

EV BATTERY & ELECTRIFICATION
Bond. Seal. Manage heat. Protect.

MARINE & RECREATIONAL
Resistant to moisture, corrosion, & shock.



INDUSTRIAL & AUTOMATION
Enabling smarter, connected systems.

ENERGY STORAGE & INFRASTRUCTURE
Powering a reliable energy future.

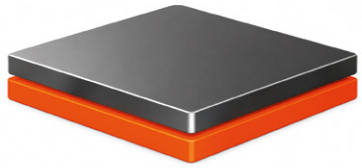
BUILT TO PERFORM. DESIGNED TO SIMPLIFY.
Stronger bonds. Smarter systems. Built to last.

Learn more about Plexus Polyurethanes:
itwpp.com

THE PLEXUS POLYURETHANES PORTFOLIO

Three solutions. One purpose: superior thermomechanical performance.

DT2325
FLEXIBLE. FORGIVING. RELIABLE.

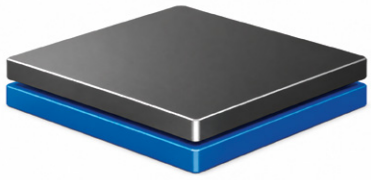


- Flexible, low modulus
- Thermal conductive: ~0.4 W/m-K
- High elongation (67 – 124%)
- Gap tolerant (0.01 – 1.0 in)

BEST FOR:

- Trailers & Panels
- Vibration-Heavy Systems
- Gap Filling Applications

DT2430
BALANCED. VERSATILE. STRONG.

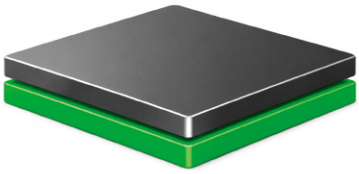


- Balanced strength & flexibility
- Thermal conductive: ~1.1 W/m-K
- High strength (1,600 – 2,000 psi)
- Excellent environmental resistance

BEST FOR:

- Battery Modules
- Energy Storage Systems
- Enclosures & Electronics

DT2630LD
HIGH PERFORMANCE. HIGH POWER.



- High strength, high thermal performance
- Thermal conductive: ~2.0 W/m-K
- High strength (1,900 psi)
- Excellent impact & weather resistance

BEST FOR:

- Inverters & Power Electronics
- High-Density Battery Packs
- High Heat Applications

PERFORMANCE SNAPSHOT

PROPERTY	DT2325	DT2430	DT2630LD
Thermal Conductivity (W/m-K)	~0.4	~1.1	~2.0
Elongation	High (67 – 124%)	Moderate (13 – 24%)	Low (5 - 8%)
Tensile Strength, psi (MPa)	1,900 - 2,300 (13.1 - 15.9)	1,600 - 2,000 (11.0 - 13.8)	1,200 - 1,500 (8.3 - 10.3)
Gap Tolerance	0.01 – 1.0 in (0.25 – 25.4 mm)	0.01 – 1.0 in (0.25 – 25.4 mm)	0.01 – 1.0 in (0.25 – 25.4 mm)

TECHNOLOGY ADVANCES

THERMOMECHANICAL BONDING
One material delivers both structural strength & thermal management.

BROAD SUBSTRATE ADHESION
Bonds metals, composites, coated surfaces, & many plastics.

DURABLE BY DESIGN
Resitant to temperature, humidity, chemicals, & vibration.

LOW ODOR & LOW VOC
Meets RoHS & REACH regulatory requirements.

ROOM TEMPERATURE CURE
With accelerated cure options available for faster processing.

WHY IT MATTERS.

Plexus Polyurethanes help you simplify designs, improve thermal performance, & build more reliable products no matter how tough the environment.

ONE MATERIAL. MULTIPLE ADVANTAGES.

- Simplify System Design
- Reduce Assembly Steps
- Improve Thermal Performance
- Increase Reliability
- Lower Total Cost

Learn more about Plexus Polyurethanes:
itwpp.com

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ITW Performance Polymers
From Formulating to End-to-End Solutions