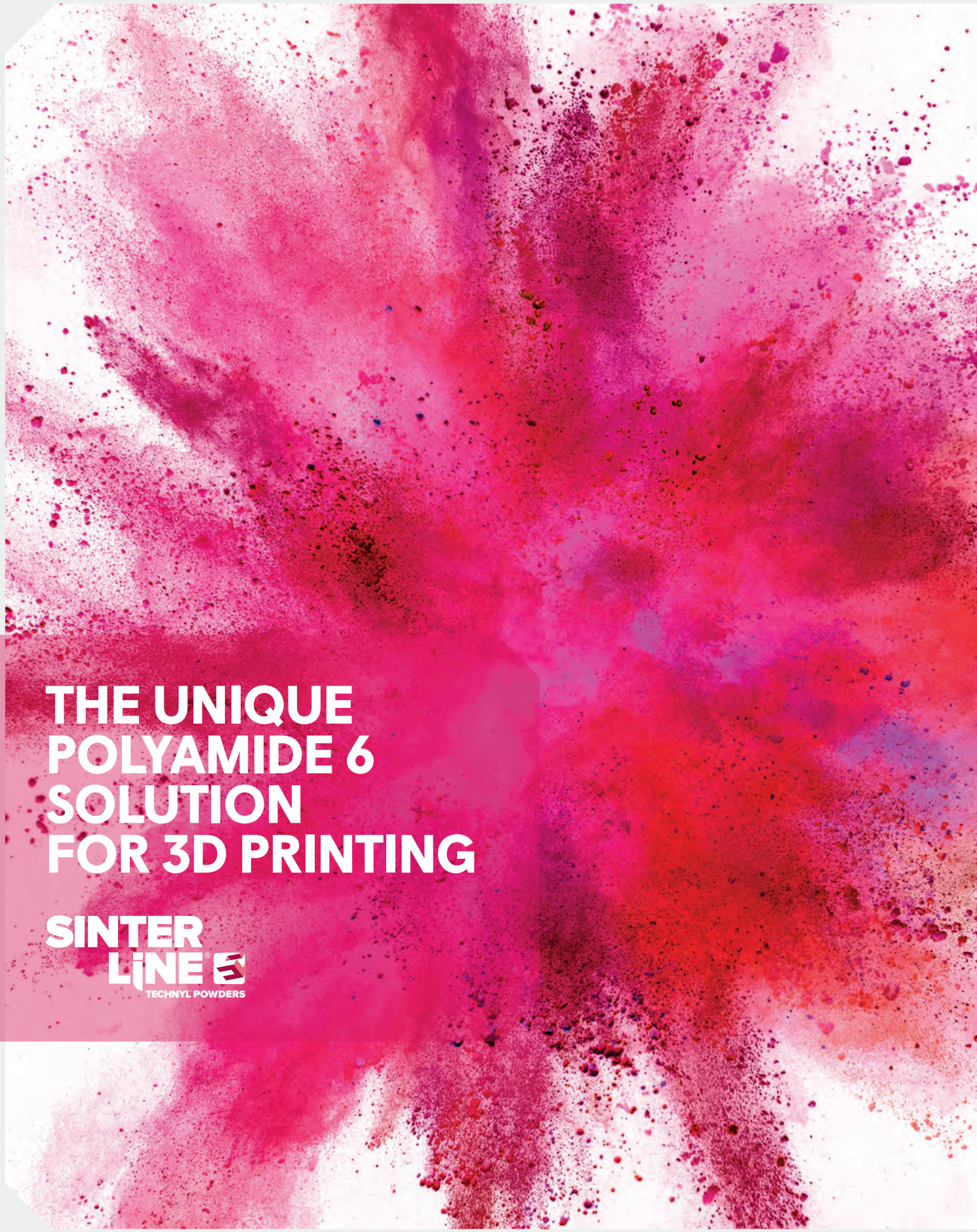
DOMO

caring
is our formula



THE UNIQUE POLYAMIDE 6 SOLUTION FOR 3D PRINTING

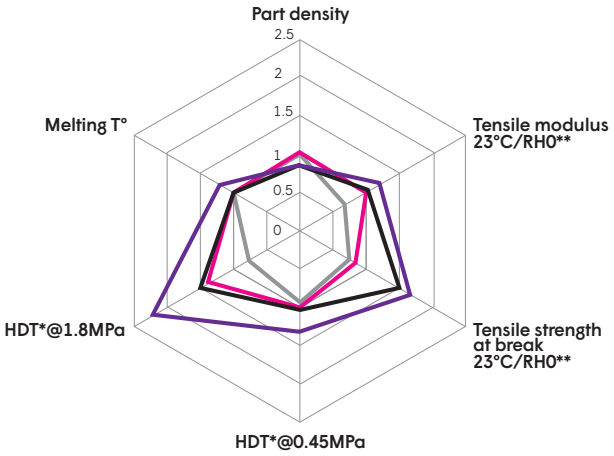
SINTER LINE®

TECHNYL POWDERS

INJECTED PART PERFORMANCE USING 3D PRINTING

Your optimal solution for mechanical resistance, thermal performance & cost efficiency

• SINTERLINE® 3D PRINTED PARTS CLOSE THE GAP WITH POLYAMIDE 6 INJECTED PARTS



- Sinterline® - 40% glass filled
- Molded PA6 - 30% glass filled
- Molded PA6 - 20% fiber filled
- Molded PA66 - 20% fiber filled

* HDT : Heat Deflection Temperature
** RH0: Relative Humidity 0

• SINTERLINE® KEY FEATURES

- Total design freedom
- Resistant parts assembly allowing pre-qualification bench testing
- Eliminate pre-production tooling (vs. conventional prototyping technologies)
- Resistant prototypes for ageing tests
  - Air: >110°C/800H ; 150°C Flash
  - Oil: 120°C ; 150°C (72 hrs)
- Chemicals and Fluids resistance:
  - Glycol compliance: >115°C/240H
  - Fuel ageing: >1000H in B30 at 115°C

• FASTER TIME TO MARKET
• UNIQUE POLYAMIDE 6 FUNCTIONAL PROTOTYPE SERVICE

Ideal for functional parts requiring high mechanical & thermal performance

AUTOMOTIVE
Oil modules, oil pans, cylinder heads covers, cooling pipes, air ducts, charge air coolers, air intake manifolds, radiator end-tanks, ...

TRANSPORTATION
Motor bike & bicycle parts, boat engine modules, agricultural machinery engine parts, ...

SPORTING GOODS
Jet ski applications, snowboard & ski bindings, cycling shoe soles, ...

APPLIANCES
Pumps, pipes, quick-connectors, ...

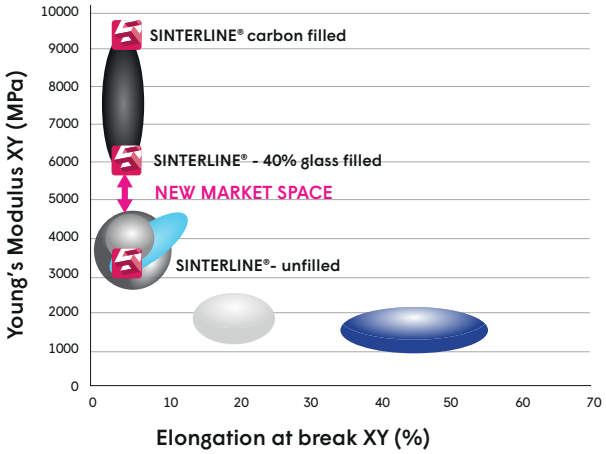
CONSTRUCTION
Miniature circuit breakers (MCB), electrical connectors, ...

PLUMBING
Water pumps, water connectors, ...

PUSHING THE LIMITS OF SELECTIVE LASER SINTERING

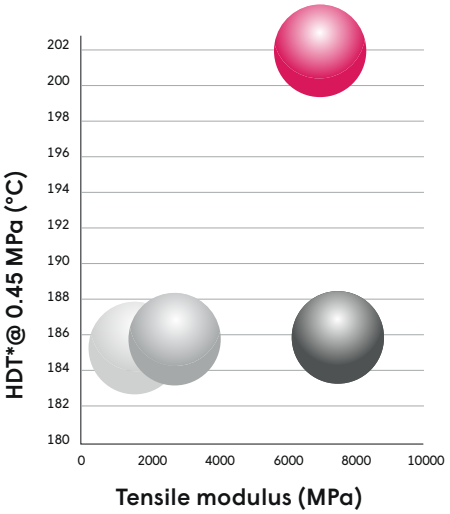
Specially designed for laser sintering, the optimum solution for highly demanding markets

- SINTERLINE® OFFERS NEW DEVELOPMENT POSSIBILITIES



- PA 12 - carbon filled
- PA12 - glass filled
- PA12 - aluminium
- PA12 - unfilled
- PA11 - unfilled
- PA11 - filled

- SINTERLINE®, BEST-IN-CLASS FOR THERMAL APPLICATIONS



- Sinterline®- glass filled
- PA12 - unfilled
- PA12 - glass filled
- PA12 - carbon filled

* HDT : Heat Deflection Temperature

- **2 SINTERLINE® GRADES AVAILABLE: UNFILLED & 40 % GLASS FILLED**
- **DURABLE PROPERTIES AT 120°C UNDER HOT AIR AND HOT OIL AGEING**

Efficient sintering process

- Good flowability and adapted particle size distribution
- Excellent mechanical retention properties (min 85%) after 10 recyclings with a 30% refresh rate
- Usable on platforms sustaining up to 194°C
- Compatible with:
  - Metallic insertion up to 180°C
  - Rubber over-molding (100bars/160°C/5 mins)

www.technyl.com

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DOMO caring is our formula

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Solvay Engineering Plastics - Technyl® - October 2013 - Graphic design POP MACHINE - Photos Thinkstock / Betty Studio - Illustrations KRYSALIDE