



### Our Know-how – Your Advantage

The compounds of the new Lightweight series are your material solutions for weight-reduced applications with adhesion to polyamides or polyolefins and excellent compression set.

- Weight reduction up to
  - » 35 % compared to standard TPS
  - » 30 % compared to TPV
  - » 50 % compared to PVC
- Adhesion to Polyamides (PA6, PA6.6) in two-component injection molding (LW/PA Series)
- Adhesion to polyolefinic materials (e.g. PP, TPV, TPS) in injection molding and coextrusion (LW/UV Series)
- Excellent compression set
- Reduced shrinkage and warpage of parts
- Closed and uniform surface structure
- Matted surface
- Compounds available in black colors, natural and precolored variants possible
- Applications in various industries

### Project leader Martina Hetterich

“These new, innovative THERMOLAST® K Lightweight TPE materials show not only a significant weight reduction but also present an extraordinarily good compression set.

Moreover, they can be processed in two-component injection molding with either polyolefins or polyamides.”

### Typical Applications

- Personal protective equipment
- Wall ducts
- Handles and overmoldings
- Joint tapes
- E-Bike- and E-Scooter-Seals
- Seals



### Technical Data

		TL60WG-BLCK	TL60CW-BLCK	TL6NGG-BLCK
Hardness	Sh A	60	65	60
Density	g/cm <sup>3</sup>	0.72	0.73	0.73
Tensile strength	MPa	2.7	1.9	2.6
Elongation at break	%	250	200	250
Tear resistance	N/mm	10.5	10.0	11.5
Compression set				
72h, 23°C	%	14	12	15
24h, 70°C	%	24	14	40
24h, 100°C	%	-	23	-
Adhesion to		PP, TPS, TPV	PP, TPS, TPV	PA6, PA6.6

### TALK TO OUR EXPERTS!

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