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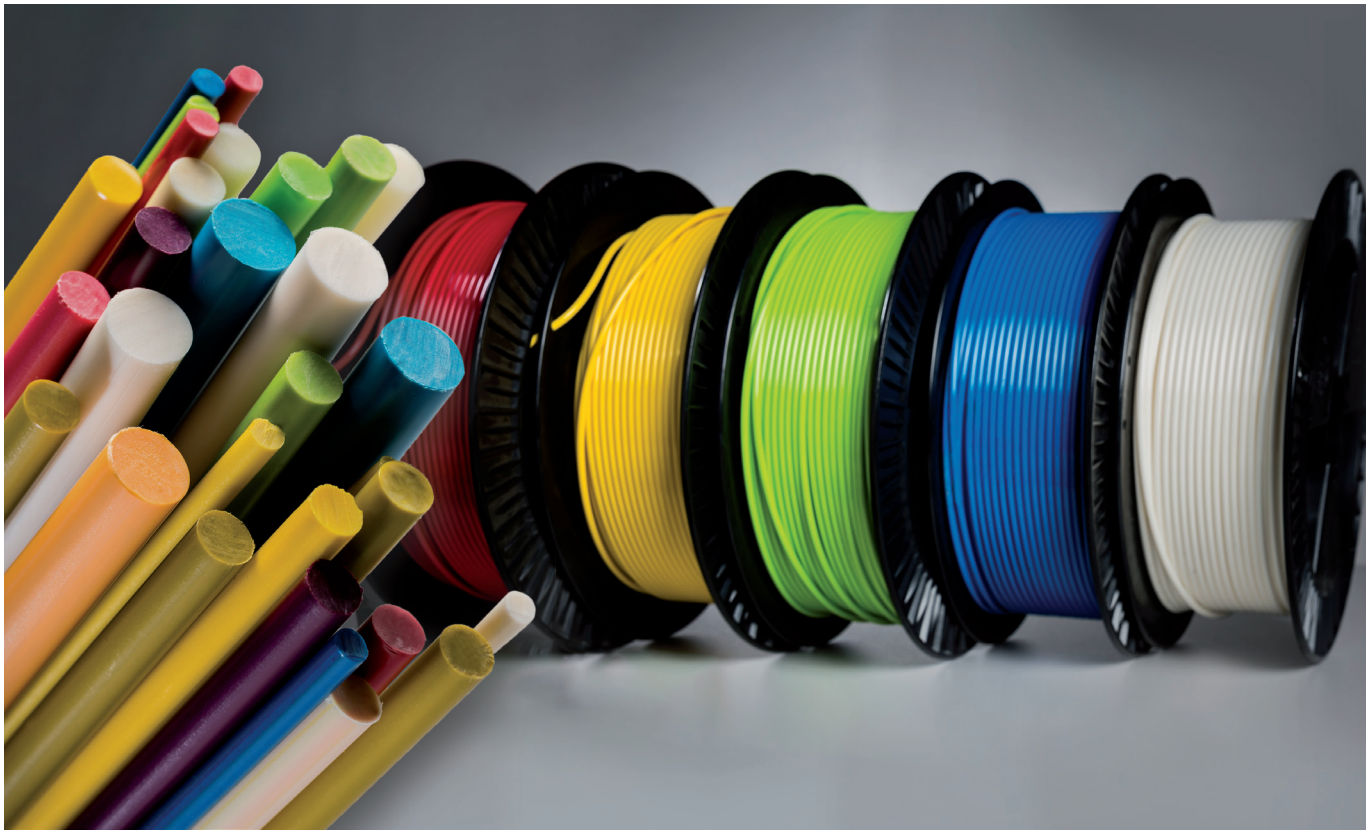
Ultramid® (PA) and Ultradur® (PBT)

for mandrel extrusion NEW!



An innovative solution for the vulcanization process of hydraulic hoses

- Easy processing and calibration of mandrels
- Consistent output and diameter
- High line speeds possible due to nucleation of compounds
- Excellent surface quality of mandrels
- High number of material turns
- Excellent chemical resistance
- High curing temperatures up to 175 °C possible
- No snake-skin experienced even after several cycles
- Easy release of mandrels due to innovative lubricant
- High extraction lengths possible

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Mandrel materials with low Young's modulus

NEW!

Ultradur® (PBT) **Product properties** Ultramid® (PA)

→ Low water uptake – high dimensional stability

→ Low Young's modulus – high flexibility

- Good processability in extrusion
- Foaming is possible, helps to avoid voids and to increase mandrel flexibility
- In-house coloring of mandrels with master batches
- Exceptional sliding friction properties

	Norm	Unit	Ultradur® grades		Ultramid® grades	
			B6551 LNI R01	B6554 LNI	EXP B4Z8 UN	B4Z8 R01 UN
Melt temperature DSC	ISO 11357-1/-3	°C	223	213	220	220
MVR (250 °C, 2.16 kg)	ISO 1133	cm³/10min	3	3.5		
Young's modulus (dry/cond.)	ISO 527-1/-2	MPa	2500	900	650/270	500/250
Elongation at break, 50 mm/min		%	>50	>50	230/330	250/320
Shore hardness D (dry/cond.)	ISO 868	-	78	63		58/51
HDT A	ISO 75-1/-2	°C	53	48		43
HDT B	ISO 75-1/-2	°C	150	85		60
Density	ISO 1183	g/cm³	1.31	1.28		1034
Abrasion resistance (dry/cond.)	ISO 4649	mm³		74		-/31

For technical queries relating to Ultradur® and Ultramid® please contact:

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Please visit our websites
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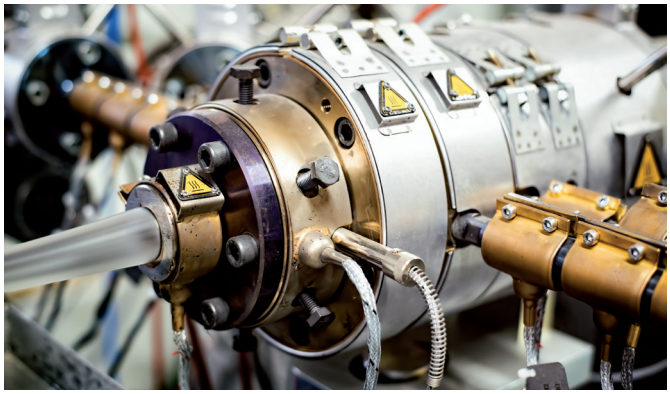

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