



TEREZ[®] PA

Portfolio

TEREZ Polyamide 6, 66 and highly filled Performance Nylons

Since the development of Polyamide 6 and 66 in the 1930s, there have been numerous further developments and new fields of application for the two polyamide classics. Polyamides are materials with high strength and rigidity, excellent stiffness as well as good abrasion and wear resistance.

Polyamides are often reinforced with glass fibers to increase stiffness and strength and to achieve the required property profile. In addition to increasing strength and flexural modulus, higher continuous use temperatures are also achieved. Depending on the structure of the polyamides, the application limits remain its mechanical properties in demanding environments. This makes PC/ABS an

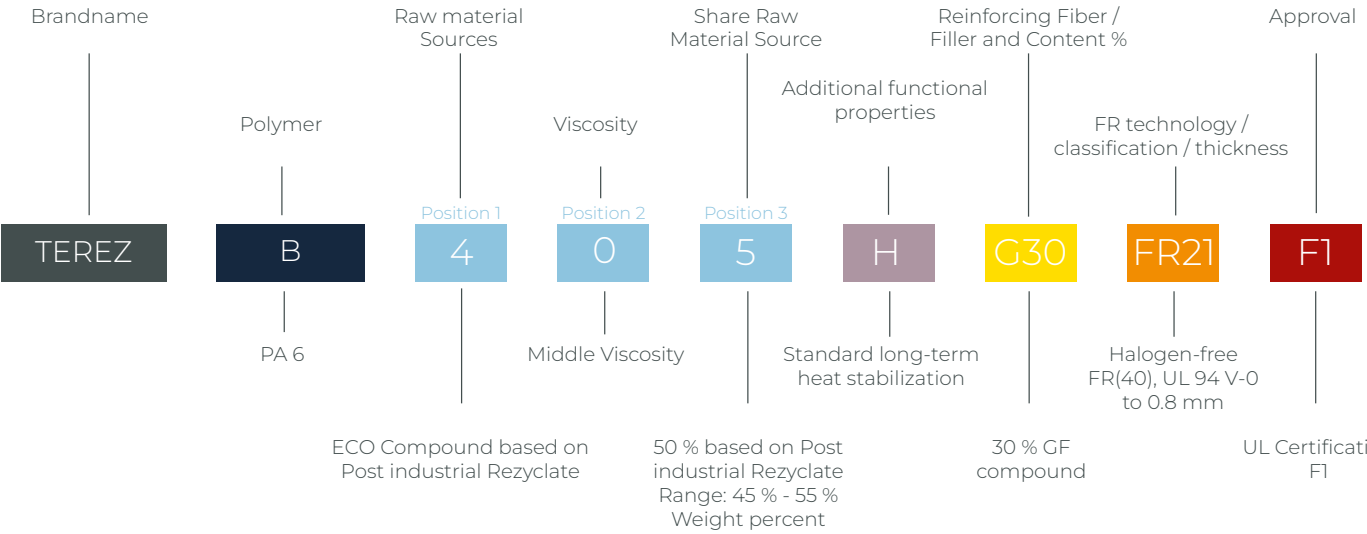
ideal choice for applications where durability and thermal resistance are crucial. from about -30 °C to over +100 °C; short-term temperatures of about 140 °C to 180 °C and above are possible. Polyamides react to moisture in the environment and absorb it reversibly. After moisture absorption, impact resistance increases while strength and stiffness decrease at the same time.

Due to their good mechanical properties, polyamides have replaced many metal applications and are mainly used in automotive, electrical and mechanical engineering. Components in the engine compartment, in contact with oils, greases or directly in the cooling circuit have a firm place in classic polyamide applications. In addition, typical applications include gears, rollers, filters and housings for power tools.



Nomenclature

Polymer Nomenclature		VW	Position 1	Raw material sources		Position 2		Viscosity	
B	PA 6	GK1C	100	Chemical Recycling		TEREZ B 300		Middle Viscosity	
A	PA 66	GK1B	200	Bio based		TEREZ B 310		Low Viscosity	
AB	PA 66 + PA 6	GK1A	300	Prime Compound		TEREZ B 320		High Viscosity	
GT2	PA MXD6	GK3	400	Post Industrial Rezyclate					
GT3	PA 66 + PA (6I/6T)	GK4	500	Post Consumer Rezyclate					
GT4	PA 66 + PA (6I/6T)	GK3+4	600	PIR + PCR					
HT	PPA (6T/6I)								
Additional functional properties		Reinforcing Fiber / Filler							
H	Various long-term heat stabilization systems for different requirements	G	Glass Fiber						
A	Various long-term Hydrolysis Resistance systems for different requirements	GX	Flat Glass Fiber						
UV	Various long-term UV Resistance systems for different requirements	GL	Long Glass Fiber						
CA	Constant antistatic effect	B	Glass Beads						
LM	Laser markable	M	Mineral Filled						
ABF	Antimicrobial and anti fungal	TF	PTFE						
SF	Super Flow Grades	FR - System		UL 94		ISO 1043			
CSM	Customer-specific modification / More than 3 additional functional properties	FR2	HF HR	V-0	FR (40)				
I	Impact modification down to 0°C	FR3	HF HR	V-0	FR (40)				
SI	Impact modification down to -40°C	FR4	HF HR	V-2	FR (30)				
		FR6	HF HR	V-0	FR (30)				
		Flame retardant classification is thickness dependent							
		FR20	UL 94 V-0 until 0,4 – 0,6 mm						
		FR21	UL 94 V-0 until 0,8 mm						
		FR22	UL 94 V-0 until 1,6 mm						
		FR23	UL 94 V-0 until 3,2 mm						
						Approval			
		MO	No LTDS						
		W	Drinking water contact						
		L	Food contact						
		F1	Weather resistance / UL Certification						





Polymer Bases

TER Plastics POLYMER GROUP collaborates globally with top producers of plastics, fillers, and additives, benefiting their TEREZ polyamides. They use polyamide 6 and 66 from various sources, all subjected to strict inspections supported by IT systems to prevent errors.

TEREZ PA Prime: Uses original raw materials, versatile for reinforcement, modification, and coloring, designated as “300”.

TEREZ PA Near Prime: Cost-effective, similar properties to the 300 series, with some color variability, ideal for black applications, designated as “301” and “302”.

TEREZ PA Eco: Focuses on recycled materials, meeting ecological demands. Supported by the EU End-of-Life Vehicles Regulation, it uses fiber residues and faulty parts, ensuring high-quality compounds through rigorous testing. The resulting materials are often black and comparable to prime grades.

TEREZ highly filled Performance Nylons offer several advantages over other materials. They are significantly stronger and stiffer, making them ideal for high mechanical loads. They are also much lighter than metals like steel or aluminium, leading to weight reduction and energy savings in automotive and aerospace industries. Additionally, they resist many chemicals, withstand higher temperatures, do not rust or corrode, and can be easily moulded into complex shapes, providing design flexibility.

PA 6 Portfolio

	Standard PA 6 Compounds	Standard PA 6 H Compounds	Special PA 6 Compounds		Impact Modified PA 6 Compounds	Low Warpage PA 6 Compounds	Flame-retardant PA 6 Compounds	Friction Modified PA 6 Compounds
Unfilled		TEREZ B 310 H TEREZ B 407 H			TEREZ B 300 H I1 TEREZ B 300 H I2 TEREZ B 300 H SI2 TEREZ B 300 H SI3 TEREZ B 310 H SI3 TEREZ B 427 H I2		TEREZ B 300 H FR41 TEREZ B 300 H FR61	TEREZ B 300 H TF5
10% Filled	TEREZ B 300 G10	TEREZ B 300 H G10 TEREZ B 310 H G10 TEREZ B 408 H G10						
15% Filled	TEREZ B 300 G15	TEREZ B 300 H G15 TEREZ B 408 H G15				TEREZ B 300 H B15	TEREZ B 300 H B15 FR22	
20% Filled	TEREZ B 300 G20	TEREZ B 300 H G20 TEREZ B 408 H G20				TEREZ B 300 H B20	TEREZ B 310 H MP20 FR41 TEREZ B 310 H G20 FR41	TEREZ B 300 H G20 TF20
25% Filled	TEREZ B 300 G25	TEREZ B 300 H G25 TEREZ B 408 H G25					TEREZ B 310 H MP25 FR41 TEREZ B 310 H G25 FR41 TEREZ B 300 H30 G25 FR21 TEREZ B 300 H30 G25 FR22	
30% Filled	TEREZ B 300 G30	TEREZ B 300 H G30 TEREZ B 403 H G30 TEREZ B 408 H G30 TEREZ B 603 H G30 TEREZ B 605 H G30 TEREZ B 607 H G30	TEREZ B 300 H30 G30 TEREZ B 310 H30 G30 F1 TEREZ B 300 H32 G30 TEREZ B 403 H32 G30 TEREZ B 407 H32 G30		TEREZ B 300 H I2 G30 TEREZ B 405 H CSM G30 TEREZ B 300 H30 I1 G30 TEREZ B 300 H30 I2 G30 TEREZ B 300 H30 SI1 G30 TEREZ B 300 H30 SI2 G30	TEREZ B 300 H B30 TEREZ B 403 H B30 TEREZ B 407 H B30 TEREZ B 300 H G10 B20 TEREZ B 300 H G15 B15 TEREZ B 300 H MT30	TEREZ B 300 H30 G30 FR21 TEREZ B 403 H30 G30 FR21 TEREZ B 300 H30 G30 FR22 TEREZ B 310 H G30 FR32	TEREZ B 310 H G30 TF15
35% Filled	TEREZ B 300 G35	TEREZ B 310 H G35 TEREZ B 403 H G35 TEREZ B 408 H G35	TEREZ B 310 H30 G35 TEREZ B 310 H32 G35				TEREZ B 310 H30 G35 FR21 TEREZ B 310 H30 G35 FR22	
40% Filled	TEREZ B 300 G40	TEREZ B 310 H G40			TEREZ B 300 H SI1 G40 TEREZ B 405 H CSM G40	TEREZ B 300 H G15 MT25 TEREZ B 300 H MT40 TEREZ B 300 H MX40	TEREZ B 310 H30 G40 FR21	
45% Filled	TEREZ B 300 G45	TEREZ B 310 H G45			TEREZ B 403 H CSM G45		TEREZ B 310 H30 G45 FR22	
50% Filled	TEREZ B 300 G50	TEREZ B 310 H G50 TEREZ B 403 H G50 TEREZ B 406 H G50	TEREZ B 310 H30 G50 TEREZ B 310 H32 G50 TEREZ B 403 H30 G50					
60% Filled	TEREZ B 310 G60	TEREZ B 310 H G60 TEREZ B 406 H G60						

*ECO Grades in green

PA 66 Portfolio

	Standard PA 66 Compounds	Standard PA 66 H Compounds	Special PA 66 Compounds		Impact Modified PA 66 Compounds	Low Warpage PA 66 Compounds	Flame-retardant PA 66 Compounds	Friction Modified PA 66 Compounds
Unfilled					TEREZ A 300 H I1 TEREZ A 409 H I1 TEREZ A 300 H I2 TEREZ A 409 H I2 TEREZ A 310 H I3 TEREZ A 300 H SI1 TEREZ A 300 H SI2 TEREZ A 300 H SI4		TEREZ A 300 H FR61	
10% Filled	TEREZ A 300 G10	TEREZ A 300 H G10						
15% Filled	TEREZ A 300 G15	TEREZ A 300 H G15			TEREZ A 300 H32 I2 G15			TEREZ A 300 H TF15 UV1
20% Filled	TEREZ A 300 G20	TEREZ A 300 H G20						
25% Filled	TEREZ A 300 G25	TEREZ A 300 H G25						
30% Filled	TEREZ A 300 G30	TEREZ A 300 H G30 TEREZ A 408 H G30 TEREZ A 603 H G30 TEREZ A 605 H G30 TEREZ A 607 H G30	TEREZ A 300 H32 G30 TEREZ A 407 H32 G30		TEREZ A 300 H I2 G30 TEREZ A 300 H SI2 G30	TEREZ A 300 H B30	TEREZ A 300 H30 G30 FR21 TEREZ A 300 H30 G30 FR22 TEREZ A 403 H30 G30 FR21	TEREZ A 300 H G30 TF15
35% Filled	TEREZ A 300 G35	TEREZ A 310 H G35	TEREZ A 300 H32 G35 TEREZ A 408 H32 G35 TEREZ A 406 HR1 G35 TEREZ A 406 HR2 G35					
40% Filled	TEREZ A 300 G40	TEREZ A 310 H G40				TEREZ A 300 H MT40 TEREZ A 300 H3 B40	TEREZ A 300 H G40 FR21 TEREZ A 310 H G40 FR21	TEREZ A 300 H G40 TF15
45% Filled	TEREZ A 300 G45	TEREZ A 310 H G45					TEREZ A 310 H30 G45 FR22	
50% Filled	TEREZ A 300 G50	TEREZ A 310 H G50 TEREZ A 407 H G50	TEREZ A 300 H32 G50 TEREZ A 405 H32 G50					
60% Filled	TEREZ A 310 G60	TEREZ A 310 H G60						

*ECO Grades in green

Highly Filled Performance Nylons

	PA6 Highly Filled Compounds	PA 66 + 6 Highly Filled Compounds	PA 66 Highly Filled Compounds		GT2 Highly Filled Compounds	GT3 Highly Filled Compounds	GT4 Highly Filled Compounds	HT Highly Filled Compounds
30% Filled	TEREZ B 310 H1 GL30 TEREZ B 414 H1 GL30	TEREZ AB 310 H1 GL30 TEREZ AB 414 H1 GL30	TEREZ A 310 H1 GL40 TEREZ A 413 H1 GL40		TEREZ GT2 300 H G30 TEREZ GT2 310 H GL30	TEREZ GT3 300 H G30 TEREZ GT3 300 H G30 W TEREZ GT3 300 H GX30 TEREZ GT3 310 H GL30	TEREZ A 300 H G30 TF15	TEREZ HT 300 H30 G30 TEREZ HT 300 H32 G30
35% Filled					TEREZ GT2 300 H G35 FR21			TEREZ HT 300 H30 G35 TEREZ HT 300 H32 G35
40% Filled	TEREZ B 310 H1 GL40 TEREZ B 413 H1 GL40	TEREZ AB 310 H1 GL40 TEREZ AB 413 H1 GL40	TEREZ A 310 H1 GL40 TEREZ A 413 H1 GL40		TEREZ GT2 300 H G40 TEREZ GT2 310 H GL40	TEREZ GT3 310 H G40 TEREZ GT3 300 H G40 W TEREZ GT3 300 H GX40 TEREZ GT3 310 H GL40	TEREZ A 300 H G40 TF15	TEREZ HT 300 H30 G40 TEREZ HT 300 H32 G40
45% Filled					TEREZ GT2 300 H G45 TEREZ GT2 300 H G45 FR21	TEREZ GT3 310 H G45 TEREZ GT3 310 H GX45 TEREZ GT4 310 H G45		TEREZ HT 300 H30 G45 TEREZ HT 300 H32 G45
50% Filled	TEREZ B 310 H G50 TEREZ B 310 H GX50 TEREZ B 310 H1 GL50 TEREZ B 413 H1 GL50	TEREZ AB 310 H G50 TEREZ AB 310 H GX50 TEREZ AB 310 H1 GL50 TEREZ AB 413 H1 GL50	TEREZ A 310 H G50 TEREZ A 310 H GX50 TEREZ A 310 H1 GL50 TEREZ A 413 H1 GL50		TEREZ GT2 300 H G50 TEREZ GT2 300 H GL50	TEREZ GT3 310 H G50 TEREZ GT3 300 H G50 W TEREZ GT3 310 H GX50 TEREZ GT3 310 H GL50 TEREZ GT3 403 H G50 TEREZ GT3 403 H G50 ABF	TEREZ GT4 310 H G50	TEREZ HT 300 H30 G50 TEREZ HT 300 H32 G50
60% Filled	TEREZ B 310 H G60 TEREZ B 310 H GX60	TEREZ AB 310 H G60 TEREZ AB 310 H GX60	TEREZ A 310 H G60 TEREZ A 310 H GX60		TEREZ GT2 300 H G60	TEREZ GT3 310 H G60 TEREZ GT3 300 H G60 W TEREZ GT3 310 H GX60	TEREZ GT4 310 H G60	TEREZ HT 300 H30 G60 TEREZ HT 300 H32 G60

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TER Plastics POLYMER GROUP

Alte Wittener Str. 50 · 44803 Bochum · Germany

P +49 (0)234 54154-0

F +49 (0)234 54154-333

info@terplastics.com

www.terplastics.com

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