



cm3/10

0,5

2

10

20

30

55

Visc MVR

MVR 0 - 1

MVR1-3

MVR 3 - 7

MVR 7 - 13

MVR 10 - 20

MVR 15 - 25

MVR 25 - 35

MVR 35 - 45

MVR 45 - 65

Range

(230°C/2,16

# **Portfolio**

#### **TEREZ Polypropylene**

Since its development in the 1950s, Polypropylene (PP) has seen numerous advancements and has found new applications across various industries. Polypropylene is known for its excellent chemical resistance, high impact strength, It also boasts a low density, making it a lightweight yet durable material.

Polypropylene is often reinforced with materials such as glass fibers to enhance its mechanical properties, including increased stiffness and strength. This reinforcement also allows PP to withstand higher continuous use temperatures. Depending on its formulation, PP can be used in environments ranging from -20°C to +100°C, with short-term exposure to temperatures up to 140°C.

One of the notable characteristics of Polypropylene is its resistance to moisture absorption, which helps maintain its mechanical properties in humid environments. This makes PP an ideal choice for applications where moisture resistance is crucial.

Due to its versatile properties, Polypropylene has replaced many traditional materials in various sectors. It is widely used in automotive parts, electrical components, and packaging. Typical applications include automotive bumpers, battery cases, and interior trim, as well as containers, pipes, and household goods.

Polypropylene's combination of lightweight, durability, and resistance to chemicals and moisture makes it a valuable material in modern manufacturing and engineering.



## **Nomenclature**

Polyn	ner Nomenclature					
PPH	РР НОМО					
PPC	PP COPO					
PPR	PP RANDOM					
Additional functional properties						
Н	Various long-term heat stabilization systems for different requirements					
UV	Various long-term UV Resistance systems for different requirements					
CA	Constant antistatic effect					
LM	Laser markable					
SF	Super Flow Grades					
CSM	Customer-specific modification / More than 3 additional functional properties					
MSR	Mar and scratch resistance					
I	Impact modification					

МО

W

No LTDS

Food contact

Drinking water contact

Weather resistance / UL Certification

vw	Position 1	Raw material so	ources		
GK1C	100	Chemical Recycling			
GK1B	<b>2</b> 00	Bio based			
GK1A	<b>3</b> 00	Prime Compound			
GK3	<b>4</b> 00	Post Industrial Rezyclate			
GK4	<b>5</b> 00	O Post Consumer Rezyclate			
GK3+4	<b>6</b> 00	PIR+PCR			
Reinforcing Fiber / Filler					
G Glass Fiber					
GX	Flat Gla	Flat Glass Fiber			
GL	Long Gl	Long Glass Fiber			
В	Glass B	Beads			
М	Mineral	l Filled			
FR - System		UL 94	ISO 1043		
FR - 5y50					
FR2	HF HR	V-0	FR (51)		

UL 94 V-0 until 0,4 – 0,6 mm

UL 94 V-0 until 0,8 mm

UL 94 V-0 until 1,6 mm

UL 94 V-0 until 3,2 mm

FR20

FR21 FR22

	301	3-13	10
	50 <b>2</b>	15-25	20
) 43	50 <b>3</b>	25-35	30
(51)	50 <b>4</b>	35-45	40
(40)	50 <b>5</b>	45-55	50
ness	50 <b>6</b>	55-65	60
	50 <b>7</b>	65-75	70
	50 <b>8</b>	75-85	80
	50 <b>9</b>	85-95	90
	50 <b>0</b>	95-100	100

Position 2

TEREZ PPC 5**0**0

TEREZ PPC 510

TEREZ PPC 520

TEREZ PPC 530

TEREZ PPC 540

TEREZ PPC 5**5**0

TEREZ PPC 560

TEREZ PPC 570

TEREZ PPC 580

Position 3

Brandname		Raw material Sources			Raw   Source		nforcing Fib and Conte		Approval
TEREZ	Polymer     PPH	Position 1	MVR  Position 2	2 Posit	pro ion 3	nal functions operties		FR technology sification/thick	
	РР НОМО		MVR 10 cm3/10 m		long-	andard term heat bilization		Halogen-free FR(51), UL 94 V-0 to 0.8 mm	
		CO Compound ba on Post consumer Rezycla		consume	ed on Post Rezyclate 5 % - 55 %		30 % GF compound		UL Certificatio F1

Weight percent



## **Polymer Bases**

Polypropylene (PP) is a widely used thermoplastic polymer, derived from the polymerization of the monomer propylene. Here are some key points about its polymer base:

- 1. Polymerization Process: PP is typically produced through a process called chain-growth polymerization, using catalysts such as Ziegler-Natta or metallocene catalysts. This process allows for control over the polymer's molecular weight and structure.
- **2. Applications:** Due to its versatile properties, PP is used in a variety of applications, including packaging, automotive parts, textiles, and consumer goods. Its recyclability also makes it a popular choice for sustainable practices.

Polypropylene (PP) is a versatile polymer widely used in various applications. It is a thermoplastic polymer made from the monomer propylene. PP is known for its excellent chemical resistance. It is lightweight, durable, and can be easily molded into different shapes, making it ideal for packaging, automotive parts, textiles, and consumer goods. Additionally, PP is recyclable, contributing to its popularity in sustainable practices.

### **PP Portfolio**

	Polypropylen Standard GF	Polypropylen High Performance GF	Polypropylen Standard Mineral Filled	Polypropylen Long Glass Fiber	Polypropylen Flame-Retardant
Unfilled	TEREZ PPC 300 E TEREZ PPH 300 E				TEREZ PPH 310 FR41 E TEREZ PPH 300 FR41 TEREZ PPH 430 FR41 TEREZ PPC 310 FR41 E TEREZ PPC 330 FR41
10% Filled	TEREZ PPC 330 G10 TEREZ PPH 330 G10 TEREZ PPH 439 G10	TEREZ PPH 330 H1 II G10 TR TEREZ PPH 340 G10 UV1	TEREZ PPH 340 MX10 TEREZ PPH 449 MX10		
20% Filled	TEREZ PPC 330 G20 TEREZ PPH 330 G20 TEREZ PPH 438 G20 TEREZ PPH 638 G20	TEREZ PPH 330 G20 UV1 TEREZ PPH 435 H20 G20 TEREZ PPH 435 H21 G20	TEREZ PPH 340 MX20 TEREZ PPH 445 MX20 TEREZ PPC 340 MX20		TEREZ PPH 330 G20 FR22 TEREZ PPH 435 G20 FR22
25% Filled	TEREZ PPH 330 G25 TEREZ PPC 330 G25				TEREZ PPH 330 G25 FR21 TEREZ PPH 330 G25 FR22 TEREZ PPH 330 G25 FR22 TEREZ PPH 435 G25 FR22
30% Filled	TEREZ PPC 330 G30 TEREZ PPH 330 G30 TEREZ PPH 340 G30 TEREZ PPH 437 G30 TEREZ PPH 637 G30 TEREZ PPH 639 G30	TEREZ PPH 330 H20 G30 TEREZ PPH 330 H21 G30 TEREZ PPH 435 H21 G30 LW TEREZ PPH 435 H20 G30 TEREZ PPH 435 H21 G30 TEREZ PPH 637 H2 G30	TEREZ PPH 340 MX30 TEREZ PPH 445 MX30 TEREZ PPC 340 MX20	TEREZ PPH 330 GL30 TEREZ PPH 330 H1 GL30 TEREZ PPH 435 H1 GL30	TEREZ PPH 330 G30 FR21 TEREZ PPH 330 G30 FR22 TEREZ PPH 435 G30 FR22
40% Filled	TEREZ PPH 320 G40 TEREZ PPH 436 G40	TEREZ PPH 433 H20 G40	TEREZ PPH 330 MX40	TEREZ PPH 330 GL40 TEREZ PPH 330 H1 GL40 TEREZ PPH 433 H1 GL40	
50% Filled	TEREZ PPH 320 G50 TEREZ PPH 425 G50	TEREZ PPH 320 H20 G50 TEREZ PPH 423 H20 G50 TEREZ PPH 523 H20 G50		TEREZ PPH 320 GL50 TEREZ PPH 325 H1 GL50 TEREZ PPH 423 H1 GL50	
60% Filled	TEREZ PPH 330 G60 TEREZ PPH 424 G60	TEREZ PPH 320 H20 G60 TEREZ PPH 423 H20 G60 TEREZ PPH 523 H20 G61		TEREZ PPH 320 GL60 TEREZ PPH 320 H1 GL60 TEREZ PPH 423 H1 GL60	

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