

Copolymer polypropylene, 30% glass fiber reinforced, heat stabilized, that has been heat stabilized for applications requiring long term heat exposure used to produce interior parts with heat load up to 100°C, and good dimensional stability. This basic product satisfies many application needs.

Form		Granules		
Color available		All color		
Processing method		Injecton		
Features		Copolymer	Heat stabilized	Low emission
Additive		UV stabilized		
According or exceeded	VW 44045-PP10	STELLANTIS MS.50042 PP-H.GF30.9400F.9I.HS		
According or exceeded	GM GMW16607P-PP-GF30			
According or exceeded				

Physical properties	ASTM	ISO	Unit	Value
Description	-	1043	-	PPC-GF30
Density	D1505	1183	g/cm ³	1.12
Ash content	D2584	3451	%	30
Linear molds shrinkage	D955	294-4	%	-
Melt flow rate (230°C/2.16 Kg)	D1238	1133	%	5

Mechanical properties				
Tensile strength at yield	D638	527	MPa	65
Tensile strength at break	D638	527	MPa	-
Tensile elongation at yield	D637	526	%	5
Tensile elongation at break	D638	527	%	-
Tensile modulus	D638	527	MPa	5900
Flexural modulus	D790	178	MPa	5500
IZOD impact strength, notched 23°C	-	ISO 180 1eA	kJ/m ²	15
IZOD impact strength, notched -30°C	-	ISO 180 1eA	kJ/m ³	-
Charpy impact strength, unnotched 23°C	-	ISO 179 1eA	kJ/m ²	-

Thermal properties				
Vicat Method B50 (50N/50°C)	D1525	306	°C	-
H.D.T. method B (0.45MPa)	D647	75	°C	-
H.D.T. method A (1.82 MPa)	D648	75	°C	135
Aging test (150°C)	-	-	hrs	> 200

Flammability properties				
Flame rating 1.6 mm	UL 94	UL 94	Class	HB
Flame rating 3.2 mm	UL 94	UL 94	Class	HB
Automotive materials (Thickness >=1 mm)	FMVSS 302	3795	mm/min	< 100

Processing conditions				
Rear temperature	-	-	°C	180 ÷ 200
Middle temperature	-	-	°C	205 ÷ 230
Front temperature	-	-	°C	225 ÷ 240
Nozzle temperature	-	-	°C	230 ÷ 240
Molds temperature	-	-	°C	20 ÷ 40
Injection Pressure	-	-	MPa	2 ÷ 11
Holding Pressure	-	-	MPa	2 ÷ 10
Back Pressure	-	-	MPa	0.2 ÷ 3
Cushion	-	-	mm	3 ÷ 6.5
Drying (Optional)	-	-	hrs / °C	3h - 80°C
Suggested Max Moisture	-	-	%	0.05