

Polypropylene homopolymer, this filled blend are typical for a 20% glass fiber reinforced polypropylene homopolymer, Chemically Coupled Non-UV.

Homopolímero de polipropileno, esta mezcla rellena es típica de un homopolímero de polipropileno reforzado con fibra de vidrio al 20%, químicamente acoplado y no resistente a los rayos UV.

Form	Granules		
Color available	All color		
Processing method	Injecton		
Features	Homopolymer	Heat stabilized	Coupled
Additive			
According or exceeded	GM GMP.PP.075 Color: NC/BK	STELLANTIS MS-DB-500 CPN 3575	FORD ESB-M4D338-A Type I Color: NC
According or exceeded	GM GMW16607P-PP-GF20	AMG AMG-163 Color: Natural	GM GM7000M
According or exceeded	GM TMP.PP.002AA Color: Natural	ASTM D5857 PP114 G20 Z1 Color: NC	

Physical properties	ASTM	ISO	Unit	Value
Description	-	1043	-	PPH-GF20
Density	D1505	1183	g/cm ³	1.04
Ash content	D2584	3451	%	20
Linear molds shrinkage	D955	294-4	%	-
Melt flow rate (230°C/2.16 Kg)	D1238	1133	%	10

Mechanical properties	ASTM	ISO	Unit	Value
Tensile strength at yield	D638	527	MPa	72
Tensile strength at break	D638	527	MPa	-
Tensile elongation at yield	D637	526	%	-
Tensile elongation at break	D638	527	%	-
Tensile modulus	D638	527	MPa	-
Flexural modulus	D790	178	MPa	4100
IZOD impact strength, notched 23°C	-	ISO 180 1eA	kJ/m ²	6
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	ASTM	ISO	Unit	Value
Vicat Method B50 (50N/50°C)	D1525	306	°C	-
H.D.T. method B (0.45MPa)	D647	75	°C	155
H.D.T. method A (1.82 MPa)	D648	75	°C	142
Aging test (150°C)	-	-	hrs	> 200

Flammability properties	ASTM	ISO	Unit	Value
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	ASTM	ISO	Unit	Value
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