

## MEXPRENE PPH 5 GF/30 H NC

Polypropylene Homopolymer, whit 30% Glass Fiber Reinforced, Chemically Coupled Non-UV. Standard grades glass fiber provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance.

Homopolímero de polipropileno reforzado con un 30 % de fibra de vidrio, con acoplamiento químico y protección UV. La fibra de vidrio de calidad estándar proporciona un equilibrio óptimo de propiedades, incluyendo rigidez, durabilidad, resistencia al impacto y resistencia al calor.

Form	Granules		
Color available	All color		
Processing method	Injecton		
Features	Homopolymer	Heat stabilized	High Stiffness
Additive			
According or exceeded	STELLANTIS MS-DB-500 CFPN3580	GM GMP.PP.009 Color: Black	
According or exceeded	FORD WSS-M4D854-B1	GM GMW16607P-PP-GF30	
According or exceeded	FORD WSB-M4D732-A3	VALEO NVB 10.036	

Physical properties	ASTM	ISO	Unit	Value
Description	-	1043	-	>PPC-GF20<
Density	D1505	1183	g/cm <sup>3</sup>	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	ASTM	ISO	Unit	Value
Tensile strength at yield	D638	527	MPa	-
Tensile strength at break	D638	527	MPa	95
Tensile elongation at yield	D637	526	%	-
Tensile elongation at break	D638	527	%	4
Tensile modulus	D638	527	MPa	-
Flexural modulus	D790	178	MPa	6800
IZOD impact strength, notched 23°C	-	ISO 180 1eA	kJ/m <sup>2</sup>	9
IZOD impact strength, notched -30°C	-	ISO 180 1eA	kJ/m <sup>3</sup>	-
Charpy impact strength, unnotched 23°C	-	ISO 179 1eA	kJ/m <sup>2</sup>	-

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	-
H.D.T. method A (1.82 MPa)	D648	75	°C	149
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 ( Thikness >=1 mm)	FMVSS 302	3795	mm/min	< 100

Processing conditiions	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