

MEXPRENE PPH 5 GF/10 H NC

Polypropylene Homopolymer, whit 10% Glass Fiber Reinforced, High 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 10 % de fibra de vidrio, de alta resistencia química y sin protección UV. La fibra de vidrio de calidad estándar proporciona un equilibrio óptimo de propiedades, incluyendo rigidez, durabilidad, resistencia al impacto y al calor.

Form	Granules		
Color available	All color		
Processing method	Injecton		
Features	Homopolymer	Heat stabilized	Coupled
Additive			
According or exceeded	GM GMP.PP.051 Color: Black		
According or exceeded			
According or exceeded			

Physical properties	ASTM	ISO	Unit	Value
Description	-	1043	-	>PPH-GF10<
Density	D1505	1183	g/cm ³	0.96
Ash content	D2584	3451	%	10
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	65
Tensile elongation at yield	D637	526	%	-
Tensile elongation at break	D638	527	%	> 4
Tensile modulus	D638	527	MPa	-
Flexural modulus	D790	178	MPa	2700
IZOD impact strength, notched 23°C	-	ISO 180 1eA	kJ/m ²	11
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	120
H.D.T. method B (0.45MPa)	D647	75	°C	-
H.D.T. method A (1.82 MPa)	D648	75	°C	140
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