

**MEXPRENE 5 GF/50 H BK**

Homopolymer polypropylene, 50% 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 120°C, and good dimensional stability. This basic product satisfies many application needs.

Polipropileno homopolímero, reforzado con un 30% de fibra de vidrio y termoestabilizado, para aplicaciones que requieren una exposición prolongada al calor, utilizado para producir piezas interiores con una carga térmica de hasta 120°C y buena estabilidad dimensional. Este producto básico satisface diversas necesidades de aplicación.

Form	Granules			
Color available	All color			
Processing method	Injecton			
Features	Copolymer	Heat stabilized	Low emission	
Additive				
According or exceeded				
According or exceeded				
According or exceeded				
<b>Physical properties</b>	<b>ASTM</b>	<b>ISO</b>	<b>Unit</b>	<b>Value</b>
Description	-	1043	-	PPH-GF50
Density	D1505	1183	g/cm <sup>3</sup>	1.32
Ash content	D2584	3451	%	50
Linear molds shrinkage	D955	294-4	%	-
Melt flow rate ( 230°C/2.16 Kg)	D1238	1133	gr/10'	5
<b>Mechanical properties</b>				
Tensile strength at yield	D638	527	MPa	-
Tensile strength at break	D638	527	MPa	110
Tensile elongation at yield	D637	526	%	2
Tensile elongation at break	D638	527	%	-
Tensile modulus	D638	527	MPa	11000
Flexural modulus	D790	178	MPa	10000
IZOD impact strength, notched 23°C	-	ISO 180 1eA	kJ/m <sup>2</sup>	16
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>	-
<b>Thermal properties</b>				
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	155
Aging test (150°C)	-	-	hrs	> 200
<b>Flammability properties</b>				
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
<b>Processing conditions</b>				
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