

MEXPRENE PPC 8 GF20 H NC

Description	Polypropylene copolymer with 2	Polypropylene copolymer with 20% glass fiber reinforced, heat stabilized				
Color	Natural	Additional formulations				
Norm	-	Fluidity form 1 to 50 gr/10'	EL - High impact			
Sector:	Automotive, forniture, white	UV - Light stabilized	IB - Hybrid Mineral+GF			
Processing	Injection	UL94 - Flame	AB - Anti bacterial			

Applications: Piezas exteriores, rejillas de radiador, manijas de puertas y componentes de motor parts. Piezas

mecánicas de alta resistencia, componentes de carga y piezas de maquinaria.

Mechanical Prope	erties		Values	Unit	ISO	
Density			1,04	g/cm³	1183	
Filler Content			20	%	3451	
Melt Flow Index 230° C/2.16 kg			6	g/10min	1133	
Melting Point (DSC)			158	° C	3146	
Mechanical Properties			Values	Unit	ISO STATE OF THE S	
Tensile strength at yield			75	MPa	527-1	
Flexural Modulus			4500	MPa	178	
IZOD Impact strength, notched		(23° C)	-	lb-ft/in2	-	
IZOD Impact streng	gth, notched	(23° C)	15,0	KJ/m ²	180 1eA	
Thermal Properties			Values	Unit	ISO STATE OF THE S	
HDT method A (1.820 MPa)			143	° C	75-1	
Flammability		Values				
Flame rating at 3.2 mm			НВ		UL94	
Processing Condition	tions		Values			
Drying	-	Suggeste max moisture		0.15	%	
Hopper	220° C	Min temperture		200	° C	
1 st Zone	230° C	Max temperture		240	° C	
2 nd Zone	230° C	Injection rate		Medium/H	Medium/High	
3 rd Zone	240° C	Injection pressure		40 ÷ 80	MPa	
Nozzle	240° C	Injection time		3 ÷ 15	Sec.	
Moulds	20 - 40° C	Cooling time		20 ÷ 60	Sec.	

Melt Temperature: A critical parameter, generally between 200-300° C for PP, with the recommendation to avoid exceeding 220° C for flame-retardant (FR) grades to prevent degradation.

Mold Temperature: Higher mold temperatures can improve part brilliance and appearance. A typical mold temperature for PP GF is around $20 \div 50^{\circ}$ C.

Injection Speed: Use high injection speeds to ensure good surface finish and prevent weld lines.

Injection Pressure: Pressure should be high enough to fill the part effectively but not excessive, which can cause flashing or burning.

Mold Venting: Essential for preventing burn marks by allowing trapped gases to escape.

Fiber Length Control: The shear forces within the injection molding barrel can significantly reduce fiber length. Processing conditions need to be managed to control this.

After annealing treatment, PP products can eliminate residual internal stresses and improve impact resistance.

To reduce internal stress and deformation, high-speed injection should be chosen, but some PP grades and molds are not applicable.

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