

DATASHEET

Product: Formalen PP Omopolimero Fibra Vetro 30%Naturale/Nero

Description: PPO GF 30 NAT/ NERO

PP-homopolymer 30% glass fibre reinforced, injection moulding grade.

<i>Rheological Properties</i>			
Density	g/cm ³	ISO 1183	1,10 – 1,15
Humidity absorption	%	Similar ISO 62	0,05
Melt flow index	cm ³ /10min	ISO 1133	4 - 7
<i>Molding shrinkage (parallel)</i>	%	ISO 294-4	0,25 - 0,45
<i>Molding shrinkage (normal)</i>	%	ISO 294-4	0,75 – 1,00
Melting point, DSC	°C	ISO 3146	165
<i>Mechanical properties</i>			
Tensile modulus	MPa	ISO 527 - 2	5000 - 5800
Stress at break	MPa	ISO 527 - 2	75
Yeld strain	%	ISO 527 - 2	-
Strain at break	%	ISO 527 - 2	2,5
Flexural modulus	MPa	ISO 178	4800 - 5200
Maximum Flexural stress	MPa	ISO 178	120
IZOD notched impact strength +23°C	KJ/m ²	ISO 180/1eA	9
IZOD notched impact strength -30°C	KJ/m ²	ISO 180/1eA	-
<i>Thermal properties</i>			
Heat distortion temperature under 1,8 Mpa load (HDT A)	°C	ISO 75 - 2	145
Heat distortion temperature under 0,45 MPa load (HDT B)	°C	ISO 75 - 2	-
Vicat softening point under 9,8 N load (Vicat A)	°C	ISO 306	-
Vicat softening point under 0,49 N load (Vicat B)	°C	ISO 306	130
<i>Electical properties</i>			
Volume resistivity	Ω*cm	IEC 60093	1,00E+14
Surface resistivity	Ω	IEC 60093	1,00E+15
<i>Flammability</i>			
Flammability rate at 0,8 mm thickness		UL94	HB
Flammability rate at 1,6 mm thickness		UL94	HB
Flammability rate at 3,2 mm thickness		UL94	HB
<i>Processing Parameters</i>			
Melt temperature	°C	CYLINDER	210-255
Mould temperature	°C	MOULD	45-70
Drying Temperature	°C		80
Dry Time	h		2

**Processing conditions listed are for typical start-up conditions for comparison purposes. Most applications are part dependent and will require process adjustment after start-up.*