Altuglas®

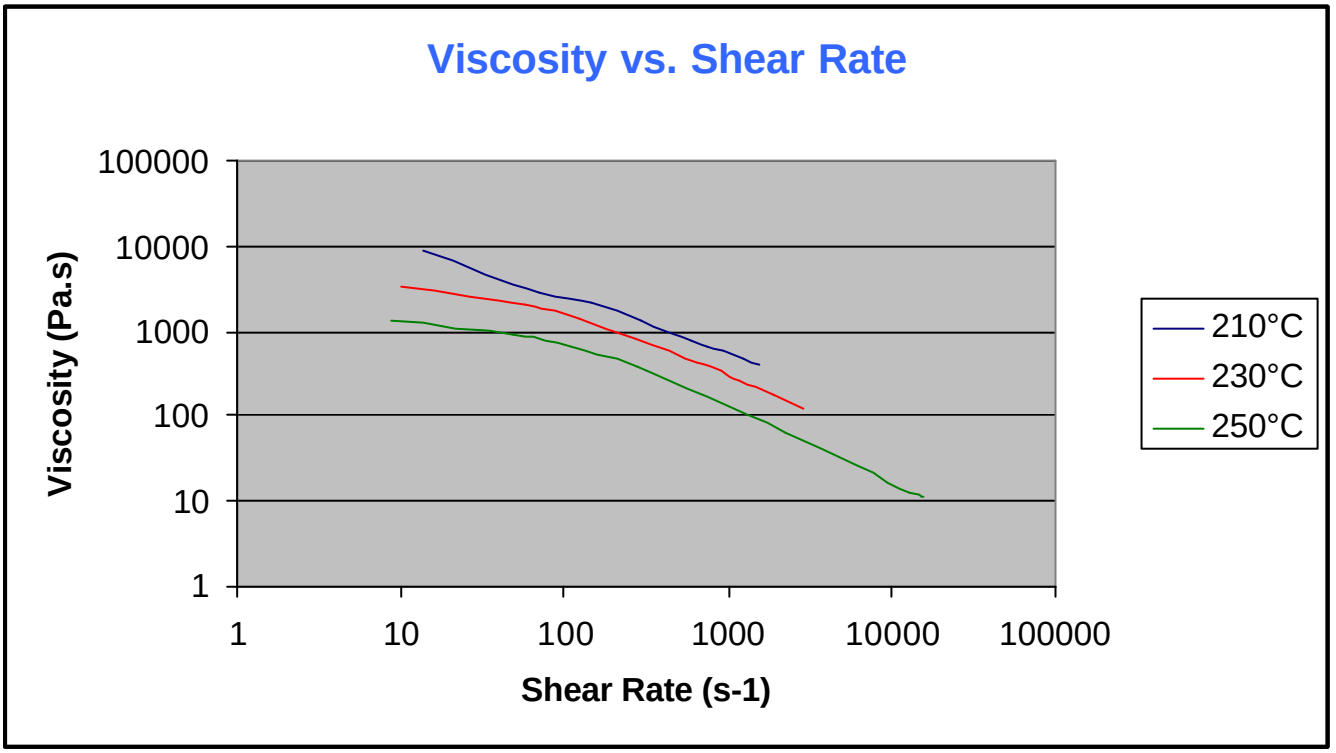
HT 121

1 - GENERAL PROPERTIES					
Density			ISO 1183	g/cm3	1,19
Water Absorption		23°C/50%HR	ISO 62	%	0,4
Mould Shrinkage	long.	mm	ASTM D-955	%	0,2-0,6
	transv.	mm			0,2-0,6
2 - RHEOLOGICAL PROPERTIES					
Rheology					
Melt Flow Index		230°C/3,8 kg	ISO 1133	g/10 min	2
Process					
Melt Temperature	mini			°C	240
	maxi				250
Mold Temperature	mini			°C	80
	maxi				90
Drying Conditions	time			h	4-6
	temperature			°C	90-100
3 - MECHANICAL PROPERTIES					
Rockwell Hardness			ASTM D-785		M-102
Tensile Strength		23°C	ISO 527-1	Mpa	70
Elongation at break		23°C	ISO 527-1	%	5
Flexural Modulus		23°C	ISO 178	GPa	3,45
Flexural Strength		23°C	ISO 178	Mpa	103
Compressive Strength		23°C	ISO 604	Mpa	117
Impact Resistance (Charpy, Notched)		23°C	ISO 179 1eU	kJ/m²	2
Impact Resistance (Charpy, Unnotched)		23°C	ISO 179 1eU	kJ/m²	11
Impact Resistane (Izod, Notched)		23°C	ISO 180/1a	kJ/m²	1,8
4 - OPTICAL PROPERTIES					
Refractive Index B			R-489		1,49
Light Transmittance			ASTM D-1003	%	92
Haze			ASTM D-1003	%	0,5
5 - ELECTRICAL PROPERTIES					
Dielectric Strength			ASTM D-149	MV/m	19,7
Dielectric Constant		60 Hz	ASTM D-150		3,7
Dissipation Factor		1 MHz	ASTM D-150		0,04
Surface Resistivity			ASTM D-527	Ohm	$>10^{14}$
Volume Resistivity			ASTM D-527	Ohm/cm	$>10^{15}$
6 - THERMAL PROPERTIES					
Vicat Softening Temperature		50 N	ISO 306	°C	121
HDT		1,82 Mpa	ISO 75-2	°C	110
		0,45 Mpa			119
Thermal Dilatation Coefficient		[-30°C;23°C]	ISO/DIS 11359-2	10-6°C-1	65
Thermal Conductivity	253°C			W/m-°C	0,22
Specific Heat				J/Kg-°C	2093
7 - FLAMMABILITY					
Fire Resistance			ASTM UL/94	Classe	HB

(*) The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products

ATOGLAS

RHEOLOGY



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