Polyplastics
Solution Platform for Engineering Plastics

Counterfeit Products Alert 2

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0220U9 HD9100 (ISO)

HELP

0220U9.pdf (187KB)

Search by grade name(OR)

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Item	Unit	Test Method	Special 0220U9 High Impact
Color No.			HD9100
ISO Marking Code		ISO11469 (JIS K6999)	>PPS-I<
Density	g/cm³	ISO 1183	1.31
Water absorption (23℃,24hrs,1mmt)	%	ISO 62	0.04
Melt viscosity (310℃,1000/sec)	Pa·s	ISO 11443	500
Tensile strength	MPa	ISO 527-1,2	75
Strain at break	%	ISO 527-1,2	21 *1
Flexural strength	MPa	ISO 178	120
Flexural modulus	MPa	ISO 178	3,400
Charpy notched impact strength (23℃)	kJ/m²	ISO 179/1eA	7
Temperature of deflection under load (1.8MPa)	℃	ISO 75-1,2	95
Coefficient of linear thermal expansion (Normal temperature, Flow direction)	x10^{-5}/℃	Our standard	5
Coefficient of linear thermal expansion (Normal temperature, Transverse direction)	x10^{-5}/℃	Our standard	6
Electric strength (3mmt)	kV/mm	IEC 60243-1	18
Volume resistivity	Ω·cm	IEC 60093	2 x 10^{16}
Volume resistivity (Our standard)	Ω·cm		-
Relative permittivity (1kHz)		IEC 60250	3.5
Relative permittivity (1MHz)		IEC 60250	3.5
Dielectric dissipation factor (1kHz)		IEC 60250	0.001
Dielectric dissipation factor (1MHz)		IEC 60250	0.002
Relative permittivity (2GHz)		Cavity resonator method	-
Dielectric dissipation factor (2GH z)		Cavity resonator method	-
Tracking resistance (CTI)	V	IEC 60112	125
Arc resistance	s	ASTM D495	111
Rockwell hardness	M(Scale)	ISO2039-2	-
Flammability		UL94	-
The yellow card File No.			-
Appropriate List number of Ministerial Ordinance for Export Trade Control			Item 16 of Appendix -1

If item's description doesn't include test condition, the item is examined at 23 deg. C. (RT)

*1) Nominal strain at break

Data of detailed properties

Moldability	Flowability	To view the data	
Moldability	Mold Shrinkage	To view the data	
Short-term mechanical properties	Tensile properties	To view the data	
Short-term mechanical properties	Flexural Properties	To view the data	
Short-term mechanical properties	Effect of Temperature on Maximum Stress	To view the data	
Short-term mechanical properties	Effect of Temperature on Modulus	To view the data	
Endurance	Chemical Resistance, Hot Water Resistance, Heat and Moisture Resistance	To view the data	
Thermal properties	Coefficient of Linear Thermal Expansion	To view the data	

All figures in the table are the typical values of the material and not the minimum values of the material specifications.

All data shown here are not always applicable to parts used under different conditions. We do not guarantee that these data are directly applicable to the application conditions of users and we ask each user to make his own decision on the application.

For safe handling of materials we supply, it is advised to refer to the Material Safety Data Sheet "SDS" of the proper material.

This brochure is edited based on reference literatures, information and data currently available to us. So the contents of this brochure are subject to change without notice due to new data.

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