XANTAR® 19 UR

Property Data

PC

Very Low Viscosity, UV Stabilized, Molding Release

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	**16**	cm³/10min	ISO 1133
Temperature	**300**	°C	ISO 1133
Load	**1.2**	kg	ISO 1133
Molding shrinkage (parallel)	**0.6**	%	ISO 294-4
MECHANICAL PROPERTIES			
Tensile modulus	**2300**	MPa	ISO 527-1/-2
Yield stress	**60**	MPa	ISO 527-1/-2
Yield strain	**6**	%	ISO 527-1/-2
Nominal strain at break	**>50**	%	ISO 527-1/-2
Flexural modulus	**2400**	MPa	ISO 178
Flexural strength	**90**	MPa	ISO 178
Izod notched impact strength (23°C)	**70**	kJ/m²	ISO 180/4A
Rockwell hardness, M scale	**70**	-	ISO 2039-2
THERMAL PROPERTIES			
Temp. of deflection under load (1.80 MPa)	**130**	°C	ISO 75-1/-2
Vicat softening temperature (50°C/h 50N)	**145**	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	**0.65**	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	**V-2**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	IEC 60695-11-10
Burning Behavior at thickness h	**V-2**	class	IEC 60695-11-10
Thickness tested	**0.75**	mm	IEC 60695-11-10
Oxygen index	**26**	%	ISO 4589-1/-2
Ball pressure temperature	**125**	°C	IEC 60695-10-2
Glow Wire Flammability Index GWFI	**800**	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	**1.5**	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	**960**	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	**3**	mm	IEC 60695-2-12
Glow Wire Ignition Temperature GWIT	**825**	°C	IEC 60695-2-13
GWIT (Thickness (1) tested)	**1.5**	mm	IEC 60695-2-13
Glow Wire Ignition Temperature GWIT	**875**	°C	IEC 60695-2-13
GWIT (Thickness (2) tested)	**3**	mm	IEC 60695-2-13
Relative Temperature Index - electrical	**130**	°C	UL746B
RTI electrical (Thickness (1) tested)	**1.5**	mm	UL746B
Relative Temperature Index - electrical	**130**	°C	UL746B
RTI electrical (Thickness (2) tested)	**3**	mm	UL746B
Relative Temperature Index - with impact	**125**	°C	UL746B
RTI with impact (Thickness (1) tested)	**1.5**	mm	UL746B
Relative Temperature Index - with impact	**130**	°C	UL746B

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RTI with impact (Thickness (2) tested)	**3**	mm	UL746B
Relative Temperature Index - without impact	**125**	°C	UL746B
RTI without impact (Thickness (1) tested)	**1.5**	mm	UL746B
Relative Temperature Index - without impact	**130**	°C	UL746B
RTI without impact (Thickness (2) tested)	**3**	mm	UL746B
ELECTRICAL PROPERTIES			
Relative permittivity (100Hz)	**3**	-	IEC 60250
Relative permittivity (1 MHz)	**2.9**	-	IEC 60250
Dissipation factor (100 Hz)	**6.6**	E-4	IEC 60250
Dissipation factor (1 MHz)	**92**	E-4	IEC 60250
Volume resistivity	**>1E13**	Ohm*m	IEC 60093
Surface resistivity	**>1E15**	Ohm	IEC 60093
Electric strength	**29**	kV/mm	IEC 60243-1
Comparative tracking index	**225**	-	IEC 60112
Comparative tracking index (PLC)	**2**	class	UL 746A
OTHER PROPERTIES			
Water absorption	**0.35**	%	Sim. to ISO 62
Density	**1200**	kg/m³	ISO 1183
Light transmittance	**89**	%	ASTM D1003
MATERIAL SPECIFIC PROPERTIES			
Limiting Viscosity Number	**46**	cm³/g	ISO 1628-4
RHEOLOGICAL CALCULATION PROPERTIES			
Thermal conductivity of melt	**0.24**	W/(m K)	-

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