XANTAR[®] 27 UR

PC

Very High Viscosity, UV Stabilized, Molding Release

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
Melt volume-flow rate	3	cm ³ /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)	80	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)	150	°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 Behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	3	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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3	mm	UL746B
125	°C	UL746B
1.5	mm	UL746B
130	°C	UL746B
3	mm	UL746B
3	-	IEC 60250
2.9	-	IEC 60250
6.6	E-4	IEC 60250
92	E-4	IEC 60250
>1E13	Ohm*m	IEC 60093
>1E15	Ohm	IEC 60093
29	kV/mm	IEC 60243-1
225	-	IEC 60112
2	class	UL 746A
0.35	%	Sim. to ISO 62
1200	kg/m³	ISO 1183
89	%	ASTM D1003
61	cm³/g	ISO 1628-4
0.24	W/(m K)	-
	125 1.5 1.5 130 3 2.9 6.6 92 >1E13 >1E15 29 225 2 0.35 1200 89 61	125 °C 1.5 mm 130 °C 3 mm 3 - 2.9 - 6.6 E-4 92 E-4 >1E13 Ohm*m >1E15 Ohm 29 kV/mm 225 - 2 class 0.35 % 1200 kg/m³ 89 %

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