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DENKA TX Polymer

DENKA
DENKI KAGAKU KOGYO KABUSHIKI KAISHA

Physical properties

Ptroperty	Test Methods	Conditions	Unit	*TX-100S*	*TX-800LF*
Melt Mass Flow Rate	ISO 1133	200deg.C 49N	g/10min	1.8	1.6
Tensile stress at break	ISO 527-1, -2	5mm/min	MPa	67	64
Nominal strain at break			%	6	5
Flexural Modulus	ISO 178	2mm/min	MPa	3,400	3,400
Flexural Strength			MPa	115	113
Charpy Impact Strength	ISO 179	Notched	kJ/m^2	2	2
Deflection temperature under load	ISO 75-1, -2	1.8MPa Flatwise	deg.C	79	79
Vicat Softing Temperture	ISO 306	50N	deg.C	100	100
Rockwell Hardness	ISO 2039-2	M-scale	-	84	77
Density	ISO 1183	23 deg.C	kg/m^3	1,127	1,111
Refractive Index	ASTM D-542	Na-D ray	-	1.54	1.55
Light Transmission	ISO 13468-1	2mmt	%	92	92
Haze	ISO 14782	2mmt	%	0.2	0.2
Molding Shrinkage	DENKA Method	2mmt	%	0.4	0.4
Water Absorption	ASTM D-570	24 Hour Equilibrium	%	0.12	0.09
Flammability	UL94 (UL File No.E49895)			HB	HB

＊ The above values are typical and not guaranteed.

Injection Molding Condision

	Unit	TX-100S	TX-800LF
Pre-drying	Temp. [deg.C]	70 ～ 80	
	Time [hr]	3 ～ 4	
Cylinder Temperature	[deg.C]	190 ～ 240	
Nozzle Temperature	[deg.C]	220 ～ 240	
Mold Temperature	[deg.C]	40 ～ 70	

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