

			, ,	,	07/2007
Property		Units	Test Method	Condition of Specimen	Value
	MECHANI	CAL PROPERT	IES		
Tensile Strength at Break		kpsi	ASTM D 638	dry	10
Tonono Oriongan at Broak		kpsi		moist	
Elongation at Break Modulus of Elasticity in Tension		%	ASTM D 638	dry	11
		%		moist	F20
		kpsi	ASTIVI D 030	moist	520
	+23 °C	ft /lbs /in	ASTM D 256/1 enA	dry	
Charpy Impact Strength	-40 °C	10,100,111		dry	
Charpy Impact Strength (Notched)		kJ/m²	ASTM D 256/1 epA	dry	
		kJ/m²	• • • • • • • • • • • • • • • • • • •	moist	
Hardness Shore Scale D			ASTM D 2240	dry	80
Time Yield Limit $\sigma_{1/1000}$	23°C/50% RH	N/mm²		moist	
	100 °C	N/mm <sup>2</sup>		dry	
Apparent Modulus E <sub>C/1000 2O</sub>	23°C/50% RH	N/mm²		moist	
	THERMA	AL PROPERTIE	S		
	Method A	°F	ISO 75	dry	
Heat Distortion Temperature	Method B	°F		dry	
Melting Point	Method A	°F	ISO 3146	-	347
Maximum Service Temperature for few Hours Operation		°F		-	
TEP 5,000 Hours (50% of Tensile Strength) <sup>1)</sup>		°F	IEC 216	-	
TEP 20,000 Hours (50% of Tensile Strength) <sup>1)</sup>		°F	IEC 216	-	
Thermal Coefficient of Linear Expansion		1/K.10 <sup>-5</sup>	DIN 53752	dry	
Thermal Conductivity	Method A	W/(K.m)	DIN 52612	dry	
Specific Heat Capacity		J/(g.K)	IEC 1006	dry	
	DIELECT	RIC PROPERTI	ES		
Dielectric Constant	<u>1 MHz</u>	-	IEC 250	dry	
		-		moist	
Dissipation Factor tan $\delta$	1 MHz	-	IEC 250	dry	
		-		moist	
Dielectric Strength		KV/mm	ASTM D 149	dry	
		KV/mm	ASTM D 149	moist	105
Volume Resistivity		Ω.cm	ASTM D 257	ury	10
		0	ASTM D 257	dru	104
Surface Resistivity		0	ASTM D 257	moist	10
Resistance to Tracking	KA/KB method	-	ASTIND 237	dry/moist	
	KC method	_		dry/moist	
	MISCELLAN			dry/moist	
Maga Dapaity	Mathad D. E			day	1 1 1
Mass Density Moisture Absorption at 23°C/50	RH Saturation	g/cm²	ISO 1110	ury	1.41
Water Absorption at 23°C Saturation		/0	150 1110	-	
Fire Performance	Flammability Acc. VDE	70	VDE 0304	drv	
	Flammability of interior materials in	mm/min	EM//SS 202	moiot	
	passenger cars h>1mm		FIVIV 35 302	moist	
	Flammability acc. UL (thickness of specimen 1.6 mm)	-	UL 94	-	
Resistance to Wear <sup>2)</sup>		µm/km	ISO 7148-2	dry	

## TECHNICAL PROPERTIES OF ZL<sup>™</sup> 900 XUELS (POM-C, conductive)

1) Data of resin only

<sup>2)</sup> Made by a pin / rotating disc test according DIN-ISO 7148-2 under following conditions:

 $R_a$  = 0.35 - 0.45  $\mu m$  (steel disc), v = 0.3 m/s, p = 3 N/mm², time T > 16 h

All statements, technical information and recommendations contained in this brochure are presented in good faith, but all information is given without warranty and liability. The reader is cautioned, however that ZL Engineering Plastics cannot guarantee the accuracy or completeness of this information, and it is the customer's responsibility to determine the suitability of ZL<sup>TM</sup> products in any given application.

10908 Strang Line Rd\* Lenexa, KS 66215 \* Phone: 913-327-0300 \* Fax: 913-327-0302 8485 Artesia Blvd, Unit D \* Buena Park, CA 90621 \* Phone: 714-523-0555 \* Fax: 714-523-4555