330 W. Duarte Road
Monrovia, CA 91016
Tel. 626 359 2551
www.Roncelli.com

RONCELLI PLASTICS
FAST | CLEAN | PRECISE

TYPICAL PROPERTIES of RYTON® 40% Glass-filled & RYTON® BEARING GRADE			
ASTM or UL test	**Property**	**Ryton®** 40% Glass-filled	**Ryton®** Bearing Grade
	PHYSICAL		
D792	Density (lb/in^3) (g/cm^3)	0.052 1.43	0.055 1.52
D570	Water Absorption, 24 hrs (%)	0.02	0.02
D570	Water Absorption, Saturation (%)	0.09	0.03
	MECHANICAL		
D638	Tensile Strength (psi)	10,900	2,100
D638	Tensile Modulus (psi)	540,000	980,000
D638	Tensile Elongation at Break (%)	5	1
D790	Flexural Strength (psi)	10,500	25,000
D790	Flexural Modulus (psi)	535,000	820,000
D695	Compressive Strength (psi)	15,500	15,000
D695	Compressive Modulus (psi)	340,000	800,000
D785	Hardness, Rockwell	M84	M93/R126
D256	IZOD Impact Notched (ft-lb/in)	1.4	1.0
QTM55007 (* not ASTM)	Coefficient of Friction, Dry vs. Steel	0.2	0.2
QTM55007 (* not ASTM)	Limiting PV (psi-fpm)	8,750	8,500
QTM55010 (* not ASTM)	"K" Wear Factor, (x 10^{-10} in^3-min/lb-ft-hr)	62	800
	THERMAL		
D696	Coefficient of Linear Thermal Expansion (x 10^{-5} in./in./°F)	3.3	1.7
D648	Heat Deflection Temp (°F / °C) at 264 psi	240 / 115	490 / 254
D3418	Melting Temp (°F / °C)	536 / 280	540 / 282
-	Max Operating Temp (°F / °C)	430 / 221	490 / 254
C177	Thermal Conductivity (BTU-in/ft^2-hr-°F) (x 10^{-4} cal/cm-sec-°C)	 2.1 7.2	 2.2 7.6
UL94	Flammability Rating	V-0	V-0
	ELECTRICAL		
D149	Dielectric Strength (V/mil) short time, 1/8" thick	500	-
D150	Dielectric Constant at 1 MHz	-	-
D150	Dissipation Factor at 1 MHz	-	-
D257	Surface Resistivity (ohm-square) at 50% RH	10^{13}	< 10^5

Data provided is for reference purposes only. Additional testing may be required for design specifications or quality control. All values at 73°F unless otherwise stated.