



R.A. RODRIGUEZ (UK) LTD

14 Old Bridge Way, Shefford, Bedfordshire,
SG17 5HQ

Phone: 01462 670044 Email: info@raruk.com
Web: www.rarodriguez.co.uk

GREENLIGN PLASTIC HOUSED BEARINGS

PROPERTIES OF PBT				CHEMICAL RESISTANCE			
Properties	Unit	Test Method		Chemical media	°C	Immulsion % Days	% Retention of strength
Mechanical				Acids			
Tensile strength at yield	N/mm ²	ASTM D 638	115	10% Hydrochloric	23	30	89
at break	N/mm ²	ASTM D 638	-		23	90	85
Elongation at yield	%	ASTM D 638	3		23	180	82
at break	%	ASTM D 638		10% Sulfuric	23	30	97
Tensile modulus	N/mm ²	ASTM D 638	8000		23	90	94
Flexural yield strength	N/mm ²	ASTM D 790	-		23	180	90
Flexural yield strength	N/mm ²	ASTM D 790	170	36% Sulfuric (battery)	23	30	97
Flexural modulus	N/mm ²	ASTM D 790	7000		23	180	96
Notched impact strength Charpy	K/m ²	DIN 53453	12		66	30	84
Notched impact strength IZOD	J/m	ASTM D 256	100	10% Acetic	66	180	35
Hard-	N/mm ²	DIN 53456	104		23	30	89
H358/60	N/mm ²	DIN 53456	101	23	180	88	
Rockwell	-	ASTM D 785	L102	Bases			
Thermal				5% Potassium Hydroxide	23	30	83
Oxygen index"	%	ASTM D 2863	19	23	90	10	
Flame ratardancy" (1/6 mm tickness)	-	UL stand 94	94H B	10% Sodium Hydroxide	23	30	2
Heat resistance: Vicat, method B	°C	ASTM D 2863	210-215	23	180	-	
Thermal conduc-	W/m ² C	ASTM C 177	0.19	10% Ammonium Hydroxide	23	30	90
Mould shrinkage flow	%	ASTM D 1299	0.4-0.6		23	90	87
Cross flow direction	%	ASTM D 1299	0.6-0.8		23	180	58
Physical				Organic Solvents			
Water absorption		ASTM D 570		Ethyl Alcohol	23	30	99
24 Hrs, 23°C	%		0.06	23	180	94	
				Methyl Alcohol	23	30	91
				23	180	76	
				Isopropyl Alcohol	23	30	100
				23	180	100	
				Isopropyl Alcohol & Water (50:50)	23	30	93
				23	180	96	
				Turpentine	23	30	92
				23	180	66	
				Acetone	23	30	63
				23	180	90	

