

EP®15

UV-RESISTANT BEARINGS FOR SUN & OUTDOOR APPLICATIONS



APPLICATIONS

Solar Power Equipment, Outdoor Applications,
Recreational Applications

CHARACTERISTICS

- UV-resistant
- Abrasion-resistant
- Lightweight
- Low coefficient of friction
- Very good bushing performance in dry working conditions
- Good bushing performance in lubricated or marginally lubricated applications
- Corrosion-resistant in humid/saline environments
- Very good price performance ratio
- Very good weight performance ratio
- Within injection molding tool feasibility unlimited dimensions and design features
- Compliant to ELV, WEEE and RoHS specifications

AVAILABILITY

Bearing forms made to order: Cylindrical bushings, flanged bushings, thrust washers, sliding plates, half-bushings, customized bearing designs



POLYMER: POM (POLYOXYMETHYLENE)

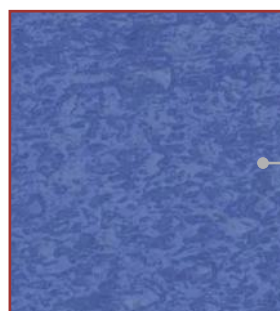
ADDITIVES: PTFE (POLYTETRAFLUOROETHYLENE), UV STABILIZER

CHARACTERISTICS	STANDARD	METRIC UNIT	METRIC VALUE	IMPERIAL UNIT	IMPERIAL VALUE
Charpy unnotched impact strength	ISO 179/1eU / ASTM D6110	kJ/m ²	45	ft-lbf/in ²	12
Charpy notched impact strength	ISO 179/1eA / ASTM D6110	kJ/m ²	4.5	ft-lbf/in ²	2.1
Coefficient of linear thermal expansion	ISO 11359-2:1999-10	10 ⁻⁶ K	120	10 ⁻⁶ F	67
Minimum temperature		°C	- 40	°F	- 40
Maximum temperature		°C	125	°F	260
Maximum extended temperature limit		°C	125	°F	260
Density	DIN EN ISO 1183-1 :2013-04 DIN EN ISO 1183-2 :2004-10	g/cm ³	1.50	lbs/in ³	0.054
Tensile strength	DIN EN ISO 527-1 :2012-06 DIN EN ISO 527-2 :2012-06 DIN EN ISO 527-3 :2003-07	N/mm ²	50	psi	7 252
Elastic modulus in tension	DIN EN ISO 178:2013-09 DIN EN ISO 527-1:2012-06 DIN EN ISO 604:2003-12	N/mm ²	2 750	psi	98 854
Maximum static load		N/mm ²	65	psi	9 500
Coefficient of friction, f			0.09 - 0.15		
Color			Blue		

OPERATING PERFORMANCE

Dry	Very Good
Oil lubricated	Good
Grease lubricated	Good
Water lubricated	Fair
Process fluid lubricated	Good after resistance testing

MICROSECTION



POM + PTFE +
UV Stabilizer

