Technical properties for oilon

Primarily used for unlubricated moving parts due to the addition of mineral oil during the processing stages. The lubricant is evenly distributed and an integral part of the material and will not drain on spin out, even under arduous working conditions and never needs replenishing

An increased bearing life – up to 5 times that of Natural Cast 6. The addition of the mineral oil also reduces the coefficient of friction when running dry, resulting in better dimensional stability and rate of wear.

Used for bearings, gears, bushes, rollers, wheels etc

	Norm	Unit i.e.	Value
Physical properties			
Specific Gravity	ISO 1183	g/cm3	1.13
Water absorbsion	DIN 53495	%	3
Chemical resistance	-	-	-
Maximum service temp	-	degrees C	100
Minimum service temp	-	degrees C	-40
Mechanical properties			
Tensile strength at yeild	ISO 527	Mpa	90/45
Elongation at yeild	ISO 527	%	4.5/20
Tensile strength at break	ISO 527	Mpa	-
Elongation at break	ISO 527	%	>50
Impact strength	ISO 179	kj/m2	0.B.
Notch impact strength	ISO 179	kj/m2	9
Ball indentation (Rockwell)	ISO 2039	Mpa	160/70
Shore D	DIN 53505	-	83
Flexural strength	ISO 178	Mpa	-
Modulus elasticity	ISO 527	Mpa	3000/1000
Thermal Properties			
Vicat softening temp	ISO 306	degrees C	-
Heat deflection temp	ISO 75	degrees C	160
Coeficcient of expansion	DIN 53752	k-1 x 10-4	0.85
Thermal conduct at 20	DIN 52612	W(mxK)	0.28
Electrical Properties			
Volume resistivity	VDE 0303	x cm	>10 13
Surface resistivity	VDE 0303	-	>10 10
Dielectric constant @ 1MHz	DIN 53483	-	3.5/7
Diel. Loss factor @ 1MHz	DIN 53483	-	0.031/0.3
Dielectric strength	VDE 0303	kV/mm	20-50
Tracking resistance	DIN 53480	-	CTI 600
Aditional Data			
Bondability	-	-	o
Friction Coeficient	DIN 53375	-	0.15
Flamibilty	UL 94	-	HB
Chemical Properties			
Acid Resistance			-
Hydroxide resistance (Dilute)			+
Hydrocarbonat resistance			+/0
CKW resistance			-
Aromatic resistance			+/0
Ketone resistance			+
Resistance to hot water			+/0

TEL: 01202 746031 FAX: 01202 741108 E-Mail: sales@ashleypower.co.uk
www.ashleypower.co.uk