

ExxonMobil Mobil Polyrex EM

Category : Fluid , Lubricant

Material Notes:

Super-premium Mobil Polyrex EM Series grease is specially formulated for electric-motor bearings. The advanced thickener formulation and proprietary manufacturing techniques provide improved bearing performance and protection for long electric motor life. Mobil Polyrex EM greases are recommended by many major bearing and electric motor manufacturers for long-life lubrication of electric motor ball and roller bearings. Mobil Polyrex EM 103 is more specifically recommended for applications such as vertically mounted bearings, or very large motors where a stiffer grease consistency may be required by the OEM, and low noise properties are not required. Mobil Polyrex EM greases have been shown to be compatible with a number of ExxonMobil lithium complex greases, as well as competitive electric motor mineral polyurea products, as determined by the methodology of ASTM D6185. Key applications include: Electric motor bearings; Fin fan bearings; High-temperature pump bearings; Factory-filled, sealed-for-life ball bearings; Ball or roller bearings operating at high temperatures where low oil separation is required; Polyrex EM for ball or roller bearings operating in noise sensitive environments

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http://www.lookpolymers.com/polymer_ExxonMobil-Mobil-Polyrex-EM.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	95	95	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	115 cSt	115 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	12.2 cSt	12.2 cSt	ASTM D445

Mechanical Properties	Metric	English	Comments
Four Ball Wear	0.410 mm	0.0161 in	40 kg, 1200 rpm, 75°C, 1 hr; ASTM D2266
Penetration	40	40	Penetration Change after 100000 strokes, mm/10; ASTM D217
	285	285	Worked, 60x; ASTM D217
Oil Separation	0.50 %	0.50 %	ASTM D1742

Thermal Properties	Metric	English	Comments
Dropping Point	260 °C	500 °F	ASTM D2265

Descriptive Properties	Value	Comments
Color	blue	
Copper Strip Corrosion, ASTM D4048	1A	
Corrosion Prevention, ASTM D1743	pass	

Grease Life, DIN 51821 (FE-9), hours Descriptive Properties	750 (min) Value	@ 177°C Comments
Low Temperature Torque, ASTM D1478, g-cm	7500	@ -29°C, Starting
	800	@ -29°C, Running
Rust Prevention, Synthetic Sea Water	pass	ASTM D665B
Water Washout, ASTM D1264, wt%	1.9	@ 79°C

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