



Standard Properties for MODEF60

PROPERTIES	ASTM METHOD	CSA-C50 CLASS B	ASTM D3487	MODEF60 (TYPICAL)
ELECTRICAL PROPERTIES				
Dielectric Breakdown @ 60 HZ (kV)	D1816	24 min.	24 min.	55
Dielectric Breakdown Impulse (kV)	D3300	145 min.	145 min.	150
Gassing Tendency, $\mu\text{L}/\text{min}$	D2300	N/A	+30 max.	-9.8
Power Factor @ 25°C	D924	≤ 0.0005	0.05 max.	0.001
Power Factor @ 100°C	D924	≤ 0.005	0.30 max.	0.082
PHYSICAL PROPERTIES				
Appearance	D1524	N/A	Clear & Bright	Clear, Sparkling
Colour	D1500	0.5 max.	0.5 max.	0.5
Specific Gravity @ 15°C	D1298	0.906 max.	0.91 max.	0.866
Kinematic Viscosity, cSt @ 40°C	D445	$\leq 12 \text{ mm}^2/\text{s}$	$\leq 12 \text{ mm}^2/\text{s}$	8.592 mm²/s
Kinematic Viscosity, cSt @ 0°C	D445	$\leq 76 \text{ mm}^2/\text{s}$	$\leq 76 \text{ mm}^2/\text{s}$	52.29 mm²/s
Kinematic Viscosity, cSt @ -40°C	D445	$\leq 6000 \text{ mm}^2/\text{s}$	N/A	2789 mm²/s
Pour Point, °C	D97	-40 max.	-40 max.	<-55°C
Interfacial Tension @ 25°C, dynes/cm	D971	40 min.	40 min.	47
Flash Point, °C	D92	145 min.	145 min.	152
CHEMICAL PROPERTIES				
Neutralization No., mg KOH/g	D664	≤ 0.03	≤ 0.03	<0.01
Water Content, ppm	D1533	35 max.	35 max.	12
Corrosive Sulphur	D1275B	Non-Corrosive	Non-Corrosive	Non-Corrosive
Strong Acid	D664	Not Detected	Not Applicable	Not Detected
PCB Content, ppm	D4059	<2	<2	<2
Oxidation Stability, 72 h-Sludge	D2440	0.1 max.	0.15 max.	0.01
Oxidation Stability, 72 h-Acid	D2440	0.4 max.	0.5 max.	0.01
Oxidation Stability, 164 h-Sludge	D2440	0.2 max.	0.3 max.	0.01
Oxidation Stability, 164 h-Acid	D2440	0.5 max.	0.6 max.	0.04
Inhibitor Content, wt. %	D2668	≤ 0.08 to 0.40	≤ 0.08 to 0.30	0.286
Oxidation Stability - Pressure Vessel (minutes)	D2112	195 min.	195 min.	326

Copy of Standard Analysis and PCB Analysis of MODEF60 is provided with every load.

For additional information please contact:
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