

VESTAKEEP®-J ZV3705

Properties of ESD grade

DAICEL-EVONIK LTD.



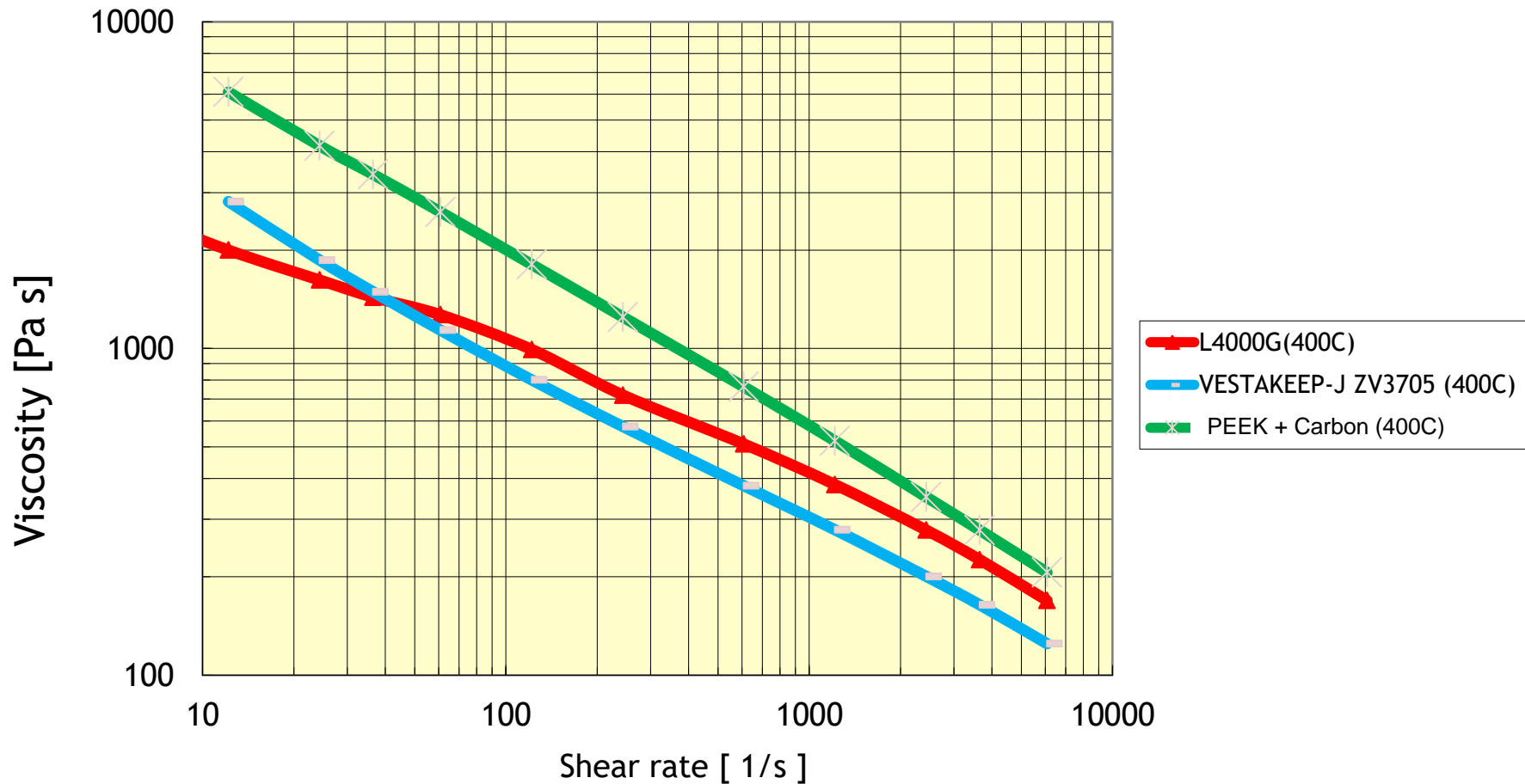
Mechanical Properties



	条件 Condition	規格 Standard	単位 Unit	PEEK+カーボン	VESTAKEEP®-J ZV3705
比重 Specific Gravity	23C	ISO1183	—	1.33	1.31
引張破断強度 Tensile Stress at Break	23C 50% Rh	ISO527	MPa	84	99
引張破断伸度 Tensile Elongation at Break			%	4.4	4.6
引張弾性率 Tensile Modulus			MPa	4,100	4,150
曲げ強度 Flexural Stress	23C 50% Rh	ISO178	MPa	160	167
曲げ弾性率 Flexural Modulus			MPa	4,300	4,170
ノッチ付きシャルピー衝撃強度 CHARPY notched Impact Strength	23 C	ISO 179/1eA	kJ/m ²	3.9	5.6
	- 30 C			3.7	5.5
荷重たわみ温度 HDT	1.8MPa	ISO75-1	°C	158	156
成形収縮率 Mold Shrinkage Ratio	金型200°C 保圧50MPa	-	%	1.8	1.8
表面抵抗率	射出成形 100V Hiresta	JIS K6911	Ω/□	10 ⁹	<10 ⁴
体積抵抗率			Ω-cm	10 ¹⁰	<10 ⁴

Melt Viscosity @400°C

Melt viscosity



Surface resistivity

●Surface resistivity by injection molded plate (3mm)

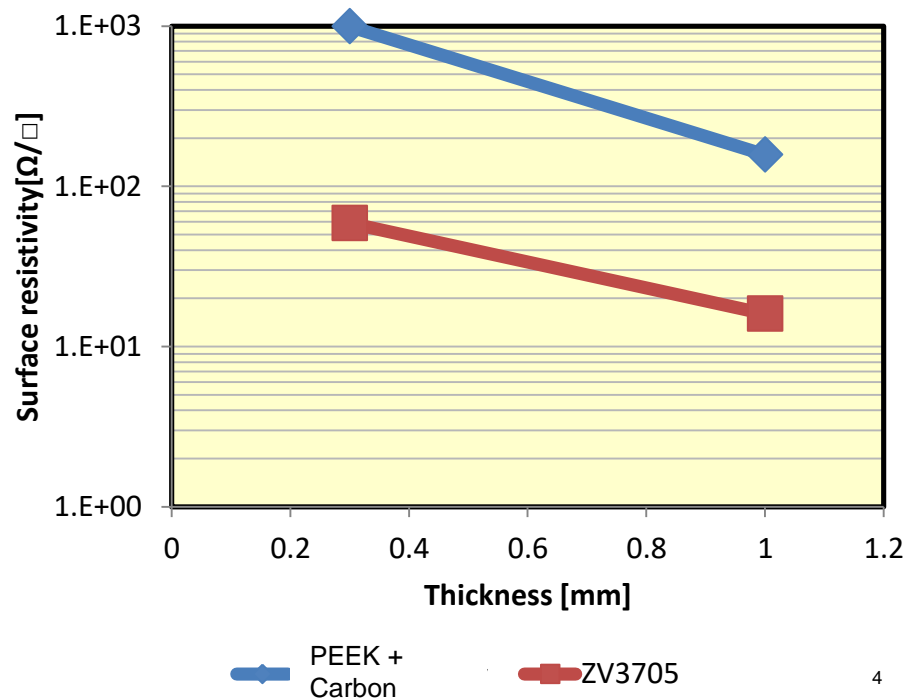
Grade	ZV3705	A7245	PEEK+ Carbon
Surface resistivity [Ω / \square]	10^1 ※	10^{5-6} ※	10^9 ※※

※Measured by Loresta-GP MCP-T610 (Nittoseiko Analytech Co., Ltd), four-terminal sensing 90V

※※ Measured by Hiresta-UP MCP-HT450 (Nittoseiko Analytech Co., Ltd), 100V

●Surface resistivity by compression film

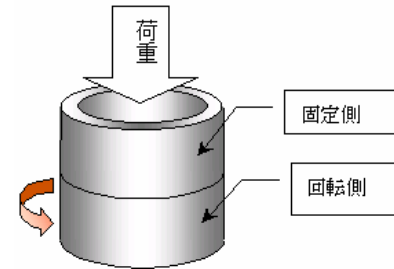
Grade	ZV3705	PEEK+ Carbon
1mmt Surface resistivity[Ω / \square]	1.6×10^1 ※	1.6×10^2 ※
0.3mmt Surface resistivity[Ω / \square]	5.9×10^1 ※	9.9×10^2 ※



Thrust sliding

- Condition

Load: 50N
Surface pressure: 0.25MPa
Speed: 0.5m/sec
Time: 2h



- Abrasion loss

ZV3705	: ①1.6mg	②1.6mg	Average 1.6mg
PEEK + Carbon	: ①3.9mg	②2.5mg	Average 3.2mg

