Liquid Gaskets

Property Table

Characteristics	Unit	1207H	1211	1211E	1211F	1211G	1211H	1212	1212D	1212E	1215	1215B	1215H	1216	1216B	1216C	1216E	1216F	1216J	1217
Main component		Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone
Curing method		Solvent vaporization Acetone	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime	Solvent vaporization Oxime
Features		Fast-curing Cooling liquid resistance	For general use Low viscosity	For general use Low viscosity	For general use Low viscosity	For general use Low viscosity	For general use Low viscosity	For general use High viscosity	For general use High viscosity	For general use High viscosity	For general use Chemical resistance	For general use Chemical resistance	For general use Chemical resistance	Multi-grade	Mission oil resistance	Mission oil resistance	Multi-grade Fast-curing	Good adhesion to magnesium alloy material	Chemical resistance CVT fluid resistance	Chemical resistance ATF resistance
Appearance		Gray	White	White	Clear	White	White	White	Aluminum color	Black	Gray	Black	Ivory	Gray	Black	Light reddish brown	Gray	Gray	Reddish brown	Gray
Viscosity	Pa-s	-	70.0	5.0	70.0	4.3	63.0	300	300	-	75.0	85.0	70	-	-	-	-	-	-	-
Apparent viscosity (SOD)	Pa-s	200	-	-	-	-	-	100	100	100	20	20	20	120	120	170	215	270	95	140
Specific gravity		1.47	1.01	1.05	1.04	1.04	1.03	1.04	1.05	1.55	1.50	1.45	1.53	1.40	1.50	1.48	1.36	1.52	1.61	1.47
Tack free time	min	3	40	60	40	35	16	7	7	5	10	11	30	5	20	5	6	5	13	20
Physical characteristics after curing: Hardness		A57	A26	A25	A24	A20	A21	A30	A30	A28	A50	A40	52	A60	A50	A48	A57	A50	A61	A57
Physical characteristics after curing: Elongation rate	%	230	300	200	300	250	280	300	300	380	320	380	310	240	500	470	300	400	250	400
Physical characteristics after curing: Tensile strength	MPa	3.0	2.5	1.0	2.5	1.8	1.9	2.0	2.0	1.7	1.2	1.2	1.32	3.0	2.0	2.1	3.3	3.0	1.8	2.1
Physical characteristics after curing: Tensile shear bond strength (Iron)	MPa	1.1	-	0.8	-	-	-	-	1.7	1.8	0.9	0.9	1.0	2.3	-	1.1	-	-	1.1	-
Physical characteristics after curing: Tensile shear bond strength (Aluminum)	MPa	1.2	1.4	0.8	1.2	0.8	1.0	1.0	1.5	1.5	0.8	0.8	1.0	2.2	1.7	1.3	2.5	2.7	1.1	2.3
Pressure resistance: Initial (When uncured) clearance: 0.2mm	MPa	-	0.04	0.01	0.04	0.01	0.04	0.15	0.1	0.15	0.05	0.05	0.05	0.21	0.17	0.18	0.25	0.29	0.20	0.18
Pressure resistance: Initial (When uncured) clearance: 0.5mm	MPa	0.10	0.01	-	0.01	-	0.01	0.06	0.03	0.06	0.01	0.01	0.01	0.10	0.07	0.06	0.10	0.19	0.09	0.07
Pressure resistance: After curing (Room temperature)	MPa	-	10 or higher	10 or higher	10 or higher	10 or higher	10 or higher	10 or higher	10 or higher	10 or higher	10 or higher	10 or higher	10 or higher	10 or higher	10 or higher	-	10 or higher	10 or higher	10 or higher	10 or higher
Chemical resistance: Appropriateness: Engine oil		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Chemical resistance: Appropriateness: Gear oil		×	×	×	×	×	×	×	×	×	○	○	○	○	△	△	○	○	△	△
Chemical resistance: Appropriateness: AT oil		×	×	×	×	×	×	×	×	×	×	×	×	△	○	○	△	△	○	△
Chemical resistance: Appropriateness: MT oil		×	×	×	×	×	×	×	×	×	○	○	○	○	○	○	○	○	○	○
Chemical resistance: Appropriateness: Coolant		○	×	×	×	×	×	×	×	×	×	×	×	△	×	×	△	△	×	×
Chemical resistance: Mass change rate: Water[*1]	%	-	-0.5	-	-	-	-	+1.3	+1.3	-	-1.0	-0.4	-0.4	-	-	-	-	-	-	-
Chemical resistance: Mass change rate: Gasoline[*2]	%	-	-20.2	-	-	-	-	-15.1	-15.1	-	-5.0	-4.7	-4.7	-	-	-	-	-	-	-
Chemical resistance: Mass change rate: Lubricating oil No.2[*3]	%	-	+5.0	-	-	-	-	+5.0	+5.0	-	+5.0	+4.9	+4.9	-	-	-	-	-	-	-
Removability		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Operating temperature range (Est.)	℃	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)	-60 to 200 (250)
Remark(s)		FIPG: Engine oil and Cooling liquid sealing	For general use Engine oil pan Used with packing	1211 Low viscosity	1211 Color difference	Better nylon adhesion than 1211E	Better nylon adhesion than 1211	For general use Engine oil pan sealing	For general use Engine oil pan sealing 1212 Color difference	For general use Engine oil pan sealing 1212 Color difference	FIPG: Engine oil pan and Gear case sealing	FIPG: Engine oil pan and Gear case sealing 1215 Color difference	FIPG: Engine oil pan and Gear case sealing 1215 Color difference	FIPG: Engine oil pan, AT case, Gear case and Cooling liquid sealing	FIPG: AT case and CVT case sealing 1215B High viscosity	FIPG: AT case and CVT case sealing 1216B Color difference	FIPG: Engine oil pan, AT case, Gear case and Cooling liquid sealing	FIPG: Engine oil pan, AT case, Gear case and Cooling liquid sealing	FIPG: Engine oil pan, AT case and Gear case sealing	FIPG: Engine oil pan, AT case and Gear case sealing

*1 : Immersion conditions 90℃×24h
*2 : Immersion conditions 50℃×24h
*3 : Immersion conditions 100℃×24h

* - : Unmeasured
* The value listed in the property table is an example of a measured value and is not the guarantee level.
* Before using, confirm the adequacy and safety for the relevant application.

www.ipgconsultant.co.th