Technical Information Sheet

ELTAS™ HPE800/HPE805

High Temp. FFKM Full-compound product

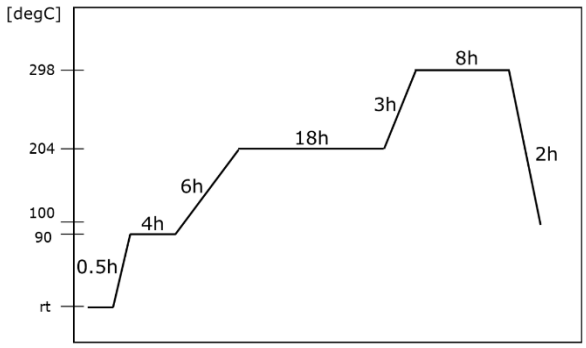
		HPE800	HPE805
Color (Compound / Post cured)		Black / Black	Black / Black
Initial properties [ISO 37, ISO 7619-1, ISO 34-1]			
HPE800: Press Cure: 220°C /15min, Post Cure: Step Cure* Refer to below			
HPE805: Press Cure: 190°C /15min, Post Cure: Step Cure* Refer to below			
Hardness, Duro A, peak	Duro A	81	74
Tensile strength	MPa	22.0	25.6
Elongation	%	150	180
Applicable standard			
AMS7257E		Conforms to	-
Compression set[1] [ASTM D1414/D395][Method B][P-24 O-ring]			
280°C /70 hrs	%	24	19
280°C /168 hrs	%	30	23
280°C /500 hrs	%	48	27
280°C /1000 hrs	%	57	39
290°C /70 hrs	%	28	18
290°C /168 hrs	%	45	24
290°C /500 hrs	%	53	32
290°C /1000 hrs	%	68	48
300°C /70 hrs	%	24	23
300°C /168 hrs	%	40	28
300°C /500 hrs	%	63	44
300°C /1000 hrs	%	89	72

[1]At room temp. 18% compression

*Step cure condition (Total: 41.5h)

HPE800: N_2 atmosphere
HPE805: Air atmosphere

1. 0.5h at rt to 90℃
2. 4h at 90℃
3. 6h at 90℃ to 204℃
4. 18h at 204℃
5. 3h at 204℃ to 298℃
6. 8h at 298℃
7. 2h at 298℃ to 100℃



UNIMATEC CO., LTD.
1-12-15 Shibadaimon, Minato-ku,Tokyo, Japan
Tel +81-3-5450-6401
contact_umt@jp.unimatec-grp.com
https://www.unimatec-grp.com/

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Chemical Resistance Data

Chemical Environment	HPE800	HPE805
30% NaOH (50 ℃ × 14 days)	A	A
Sodium hypochlorite (50 ℃ × 14 d days)	B	A
28% NH_3 aq (40 ℃ × 14 days)	B	B
28% NH_3 aq (23 ℃ × 14 days)	C	A
36% HCl (50 ℃ × 14 days)	TBA	TBA
97% H_2SO_4 (50 ℃ × 14 days)	A	A
65% HNO_3 (50 ℃ × 14 days)	B	A
Glacial acetic acid (50 ℃ × 14 days)	B	B
Acetic anhydride (50 ℃ × 14 days)	A	B
Triethylenetetramine (40 ℃ × 14 days)	A	A
Aniline (40 ℃ × 14 days)	A	A
Triethylamine (40 ℃ × 14 days)	A	A
Ethylenediamine (40 ℃ × 14 days)	A	A
Butyl Acetate (40 ℃ × 14 days)	B	B
Toluene (40 ℃ × 14 days)	B	B

	ΔV	ΔHs
A	< ±5	< ±3
B	< ±10	< ±6
C	< ±15	< ±9
D	< ±20	< ±12
E	±20 <	±12 <

This information corresponds with the state of our knowledge at the time of printing and is intended to give information of possible applications to a reader with technical experience. The assurance of properties, product responsibility or guarantee are impossible without our clarification as to the specific applications of use and service condition.

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