Fluoraz FEPM 797

Perfluoroethylene Propylene Copolymer

Greene, Tweed & Co.

Message:

Fluoraz FEPM 797 is a Perfluoroethylene Propylene Copolymer (FEP) product. It is available in North America.

General Information			
Appearance	Black		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.63	g/cm³	ASTM D297
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	83		ASTM D785
Durometer Hardness (Shore A)	80		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction [1]			ASTM D1894
vs. Itself - Dynamic	0.50		
vs. Itself - Static	0.80		
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D1414
50% Strain	3.86	MPa	
100% Strain	9.14	MPa	
Tensile Strength (Break)	19.3	MPa	ASTM D1414
Tensile Elongation (Break)	230	%	ASTM D1414
Tear Strength [2]	55.2	kN/m	ASTM D624
Compression Set [3]			
23°C, 70 hr	19	%	ASTM D395
149°C, 70 hr	36	%	ASTM D395
175°C, 166 hr	40	%	ASTM D395
200°C, 22 hr	27	%	ASTM D395
200°C, 22 hr	40	%	ASTM D395B
200°C, 70 hr	34	%	ASTM D395
232°C, 70 hr	39	%	ASTM D395
242°C, 70 hr	22	%	ASTM D395
288°C, 70 hr	64	%	ASTM D395
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air			ASTM D573
149°C, 70 hr	0.0	%	
232°C, 70 hr	-10	%	
276°C, 70 hr	-56	%	

288°C, 70 hr	-68	%	
Change in Ultimate Elongation in Air			ASTM D573
149°C, 70 hr	7.0	%	
232°C, 70 hr	11	%	
276°C, 70 hr	13	%	
288°C, 70 hr	-22	%	
Change in Durometer Hardness in Air			ASTM D573
149°C, 70 hr	2.0		
232°C, 70 hr	-1.0		
276°C, 70 hr	0.0		
288°C, 70 hr	-2.0		
Change in Tensile Strength			ASTM D471
135°C, 70 hr, in Ford ATF	-12	%	
135°C, 70 hr, in Wagner 21B	-14	%	
175°C, 70 hr, in Stauffer 7700 Fluid	-25	%	
200°C, 1000 hr, in Castrol 325	-17	%	
240°C, 100 hr, in Castrol 325	-22	%	
242°C, 70 hr, in Steam [4]	-44	%	
Change in Ultimate Elongation			ASTM D471
135°C, 70 hr, in Ford ATF	17	%	
135°C, 70 hr, in Wagner 21B	24	%	
175°C, 70 hr, in Stauffer 7700 Fluid	15	%	
200°C, 1000 hr, in Castrol 325	12	%	
240°C, 100 hr, in Castrol 325	25	%	
242°C, 70 hr, in Steam [5]	-32	%	
Change in Durometer Hardness			ASTM D471
135°C, 70 hr, in Wagner 21B	-4.0		
175°C, 70 hr, in Stauffer 7700 Fluid	-16		
191°C, 70 hr, in Ford ATF	-7.0		
200°C, 1000 hr, in Castrol 325	-10		
240°C, 100 hr, in Castrol 325	-15		
242°C, 70 hr, in Steam [6]	-2.0		
Change in Volume			ASTM D471
135°C, 70 hr, in Ford ATF	8.0	%	
135°C, 70 hr, in Wagner 21B	6.9	%	
175°C, 70 hr, in Stauffer 7700 Fluid	25	%	
200°C, 1000 hr, in Castrol 325	10	%	
240°C, 100 hr, in Castrol 325	12	%	
242°C, 70 hr, in Steam [7]	2.0	%	

Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	2.2E-4	cm/cm/°C	ASTM E228
Service Temperature	-5 to 232	°C	

Rubber Classification	FEPM		ASTM D1418
TR 10/50	6	°C	ASTM D1329

NOTE	
1.	Method C
2.	Die B
3.	In air, 25% of original deflection
4.	500 psi
5.	500 psi
6.	500 psi
7.	500 psi

Recommended distributors for this material

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