

ECO-FLEX™ RTPV

Where Does it Fit?

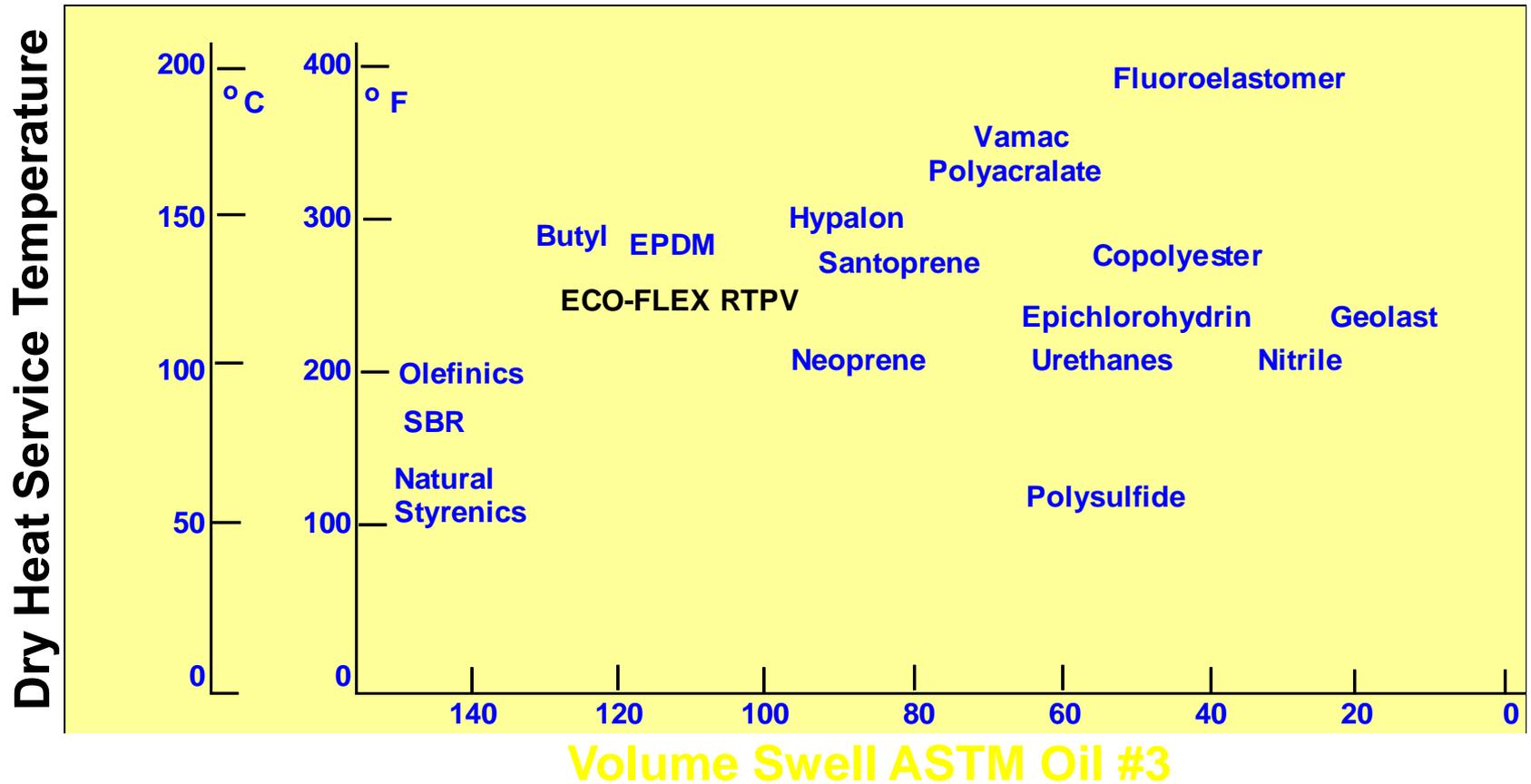


*** DISCLAIMER OF WARRANTY AND LIABILITY: SYNESIS LLC makes no warranties, express or implied, as to the accuracy or completeness, or of merchantability, fitness for a particular purpose or of any other nature regarding information of this product.**

SYNESIS

Thermoset and Thermoplastic Rubbers

Performance Chart



SYNESIS

Comparison to Thermoset Rubbers

<u>Property</u>	<u>ECO-FLEX</u>	<u>SBR</u>	<u>Natural Rubber</u>	<u>EPDM</u>	<u>Neoprene</u>
PCR Content	50% +	No	No	No	No
Durometer Shore A	40 - 90	40 - 90	40 - 90	40 - 90	50 - 90
Specific Gravity	1.0 - 1.04	1.4	1.2	1.2	1.4
Compression Set	F	F	F	E	G
High Temp Service (F)	250	175	175	275	250
Low Temp Service (F)	-50	-50	-50	-65	G
Ozone	E	F	P	E	G
Acid	E	G	F	E	G
Alkalis	E	G	F	E	G
Weather (UV)	E	G	F	E - G	G
Lubricating Oil	P	P	P	P	F

E = Excellent G = Good F = Fair P = Poor

SYNESIS

ECO-FLEX RTPV Comparison to Other TPE's

<u>Property</u>	<u>E-F RTPV</u>	<u>Kraton</u>	<u>TPO</u>	<u>Santoprene</u>
PCR Content	Yes	No	No	No
Hardness Range, Shore	45A - 40D	25A - 90A	60A - 90A	45A - 50D
Specific Gravity	0.95 - 1.03	0.9 - 1.2	0.9 - 1.1	0.94 - 1.0
Tensile Strength, psi	400 - 1,500	400 - 1,500	500 - 2,000	400 - 2,300
Elongation, %	300 - 500	300 - 900	300 - 500	300 - 500
Tear Strength, psi	100 - 200	100 - 200	100 - 200	100 - 200
Abrasion Resistance	Good	Fair	Fair	Good
Compression Set at 70 C, %	35 - 55	50 - 80	50 - 80	25 - 45
Continuous Use Temp., C	125	70	100	135
Chemical Resistance	Good	Poor	Fair	Good
Cycle Time	Same	10-15% Higher	Same	Same

E = Excellent G = Good F = Fair P = Poor

.....

SYNESIS