

**TOTAL Styrelf®** binders are bitumens modified with elastomeric polymers using a crosslinking process which gives them exceptional properties in terms of storage stability, cohesiveness, elongation capacity and resistance to aging.

**TOTAL Styrelf® eXtreme** binders improve the performance of hot mix asphalt for wearing courses having to withstand traffic loads and very high thermal stresses.

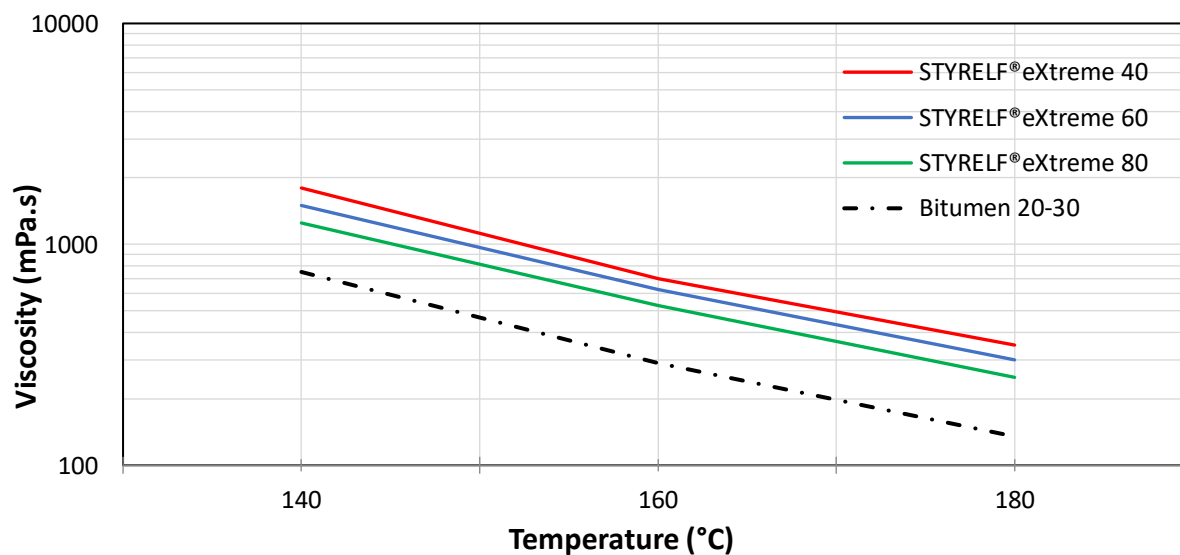
CHARACTERISTICS	METHOD	TOTAL Styrelf®	TOTAL Styrelf®	TOTAL Styrelf®	
		eXtreme 40 PMB 25/55-65	eXtreme 60 PMB 45/80-65	eXtreme 80 PMB 40/100- 65	
Penetration at 25°C	<sup>1/10</sup> m m	EN 1426	30 – 50	50 – 70	65 – 105
Softening point (R&B)	°C	EN 1427	≥ 65	≥ 65	≥ 60
Flash Point CoC	°C	EN ISO 2592	≥ 220	≥ 220	≥ 220
Elastic recovery at 25°C	%	NF EN 13398	≥ 80	≥ 80	≥ 80
Tensile test (10°C, 100 mm/min) Cohesion at 400% of elongation	(J/c m <sup>2</sup> )	NF EN 13703	≥ 10	≥ 8	≥ 5
<b>Storage Stability (3 days/180°C)</b>	<b>NF EN 13399</b>				
Difference R&B	°C	NF EN 1427	≤ 3	≤ 3	≤ 3
<b>Resistance to hardening (RTFOT)</b>	<b>NF EN 12607-1</b>				
Retained penetration	%	NF EN 1426	≥ 60	≥ 60	≥ 60
Increase of R&B	°C	NF EN 1427	≤ 8	≤ 8	≤ 8
Change of mass	%	NF EN 12607-1	≤ 0,3	≤ 0,3	≤ 0,3
<b>Others Characteristics</b>					
Fraass Breaking Point	°C	EN 12593	≤ -12	≤ -15	≤ -18
Plasticity index (R&B – Fraass)	°C		≥ 80	≥ 80	≥ 80

Updating: 2021-02

The information given on this sheet is accurate to the best of our knowledge at the date of publication but is given strictly without liability. Written advice concerning the above product will be given on request but is subject to the same limit of liability. Total reserve the right to change formulations and specifications at any time and the purchaser is advised to check that the above information has not been superseded.

Others Characteristics	METHOD	TOTAL Styrelf® eXtreme 40 PMB 25/55-65	TOTAL Styrelf® eXtreme 60 PMB 45/80-65	TOTAL Styrelf® eXtreme 80 PMB 40/100- 65
Density at 25°C	EN 15326	1,01 – 1,04	1,01 – 1,04	1,01 – 1,04
Density at mixing temperature		0,937-0,965	0,923 - 0,950	0,922 - 0,948
Pumpability temperature limit °C		150	145	125
Tmax for a long terme storage (> 5 days) °C		≥ 155	≥ 150	≥ 140
Mixing temperature °C		175 – 185	170 – 180	165 – 175

Viscosity of **TOTAL Styrelf® eXtreme** in function of temperature  
(typical curve)



**TOTAL Styrelf®** is a registered trademark of the TOTAL group

Safety Data Sheets are available: <https://sdstotalms.total.com>

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