

Meadex Rubber Mouldings - Material Data Sheet

	Natural Rubber	SBR	EPDM	Neoprene CR	Hypalon* CSM	Nitrile NBR	Acrylic ACM	Vamac*	Silicone Si	Therban† HNBR	Viton* FPM	Fluoro-silicone FSi
Cost Factor	1	1	2	2	3	2	4	4	6	8	15	40
Hardness Range (Shore A)	30 - 90°	40 - 95°	30 - 85°	30 - 90°	40 - 85°	40 - 100°	50 - 85°	45 - 90°	40 - 80°	50 - 95°	50 - 95°	40 - 80°
Colours	Full Range	Full Range	Limited	Full Range	Limited	Limited	Black	Limited	Limited	Limited	Limited	Limited
Heat Resistance												
Maximum Continuous	75°C	85°C	130°C	95°C	130°C	100°C	150°C	150°C	205°C	125°C	205°C	180°C
Maximum Intermittent	105°C	115°C	150°C	125°C	160°C	130°C	180°C	180°C	300°C	160°C	300°C	200°C
Minimum Temperature	-60°C	-55°C	-50°C	-40°C	-25°C	-20°C	-20°C	-40°C	-60°C	-30°C	-20°C	-60°C
Resistances												
Oxidation	Fair	Fair	Excellent	Very Good	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Ozone & Weathering	Poor	Poor	Excellent	Very Good	Excellent	Fair	Excellent	Excellent	Excellent	Very Good	Excellent	Excellent
Oil Resistance												
ASTM Oil No. 1 @ 20°C	Poor	Poor	Fair	Excellent	Excellent	Excellent			Excellent	Excellent	Excellent	Excellent
@ 100°C	Poor	Poor	Poor	Good	Good	Good	Excellent	Excellent	Good	Excellent	Excellent	Excellent
ASTM Oil No. 3 @ 20°C	Poor	Poor	Poor	Good	Excellent	Excellent			Good	Fair	Excellent	Excellent
@ 100°C	Poor	Poor	Poor	Fair	Fair	Good	Good	Fair	Fair	Fair	Excellent	Excellent
Fuel Resistance												
ASTM Fuel B @ 40°C	Poor	Poor	Poor	Poor	Poor	Fair	Poor	Poor	Poor	Poor	Excellent	Fair
Solvent Resistance (20°C)												
Alcohol	Good	Good	Good	Good	Good	Good	Good	Fair	Good	Excellent	Good	Good
Acetone	Fair	Fair	Good	Fair	Fair	Poor	Poor	Fair	Fair	Good	Unsuitable	Unsuitable
Benzene	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Fair	Good	Good
Chemical Resistance												
Acids	Fair	Fair	Good	Good	Very Good	Good	Poor	Fair	Fair	Good	Excellent	Good
Bases	Good	Good	Good	Fair	Good	Fair	Poor	Good	Fair	Good	Good	Fair
Physical Strength	Excellent	Good	Good	Good	Good	Good	Good	Good	Poor	Good	Good	Poor
Compression Set	Good	Good	Good	Fair	Fair	Good	Good	Fair	Good	Good	Good	Good
Tear & Abrasion Resistance	Excellent	Good	Good	Good	Good	Good	Good	Good	Poor	Very Good	Good	Poor
Resilience	Excellent	Good	Very Good	Very Good	Fair	Good	Poor	Fair	Good	Fair	Fair	Fair
Permeability To Gases	Poor	Low	Low	Low	Low	Low	Low	Very Low	Low	Good	Very Low	Low
Electrical Strength	Excellent	Excellent	Excellent	Good	Good	Poor	Fair	Good	Excellent	Poor	Good	Excellent
Flame Resistance	Poor	Poor	Poor	Self-Extinguish	Good	Poor	Poor	Fair	Good	Poor	Self-Extinguish	Self-Extinguish
Water Resistance	Very Good	Good	Excellent	Good	Very Good	Good	Poor	Good	Good	Very Good	Good	Good

* Du Pont Registered Trade Mark † Bayer Registered Trade Mark

The information contained herein is for guidance purposes only.

Meadex Mouldings Limited recommends that finished product testing is performed in order to determine suitability for end use.