



NEXPRENE® 9080ACM

DESCRIPTION:

NEXPRENE® 9080A CM Thermoplastic Elastomer is a fully crosslinked, EPDM/PP compound designed for corner molding and over molding applications. It is easily injection molded and is fully bondable to TPV and EPDM. High heat stability of these products allows for processing temperatures as high as 500 °F that promotes excellent bonding. Other attributes are easy to color (due to extreme white neutral color), weatherable, and may be recycled with other polyolefins.

APPLICATIONS:

Suitable for applications requiring flexibility in the following markets: automotive weatherseal corner molding, appliance, business machines, construction, consumer products, electrical & electronics and fluid delivery.

PROPERTY	TYPICAL VALUE	UNITS	METHOD
Shore Hardness 23°C, 15 sec injection molded	80	Shore A	ISO 868
Shore Hardness 23°C, 5 sec injection molded	81	Shore A	ISO 868
Specific Gravity 23°C	0.96	g/cc	D-792
Tensile Strength 23°C	9	MPa	ISO 37 Type 1
Ultimate Elongation 23°C, 500 mm/min	320	%	ISO 37 Type 1
100% Modulus 23°C, 500 mm/min	6	MPa	ISO 37 Type 1
Tear Strength 23°C	45	kN/m	ISO 34-1 (B)
Compression Set 23°C, 24 hrs	23	%	ISO 815, Large
100°C, 24 hrs	-	%	ISO 815, Large
125°C, 72 hrs	60	%	ISO 815, Large
Fogging (Photometric Method) 95°C, 6hrs, 38°C plate	84	%	SAE J1756 - 1 hr/23° cond.
95°C, 6hrs, 38°C plate	88	%	SAE J1756 - 16 hr/23° cond.
Weathering (Black Sample) Color change (Interior)	< 1	Delta E	SAE J1885 (1200kJ/m ²)
Color change (Exterior)	2	Delta E	SAE J1960 (2400kJ/m ²)
Solar Aging for 12 months	-	Delta E	SAE J1976
Brittle Point	< -55	°C	D-746
Oil Volume Swell (125°C/72hr)	70	% (by Vol.)	ISO 1817 (IRM 903 Oil)

Samples die cut from injection molded 2.0mm plaques (end gated, cut perpendicular to flow)
1/03E