



NEXPRENE 9580A

DESCRIPTION:

NEXPRENE® 9580A thermoplastic vulcanizate is a fully weatherable crosslinked, EPDM/PP compound designed to replace thermoset elastomers, such as EPDM or polychloroprene, and traditional thermoplastic TPVs. NEXPRENE® 9580A provides excellent chemical resistance and physical properties. This product has 40% lower viscosity compared to traditional TPVs and TPEs; allowing for thin wall and difficult molding applications. NEXPRENE® 9580A is fully recyclable and can be processed using conventional thermoplastic equipment.

APPLICATIONS:

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

PROPERTY	TYPICAL VALUE	UNITS	TEST METHOD
PHYSICAL			
Hardness:			
Injection Molded, 5 sec	83	Shore A	ASTM D-2240
Extrusion, 5 sec	80		ISO 868
Injection Molded, 15 sec	80		
Specific Gravity 23°C	0.96		ASTM D-792 ISO 1183
Compression Set			
22 hr @ 70°C	38	%	ASTM D-395
70 hr @ 125°C	50		ISO 815 ASTM D-395 ISSO 815
Brittle Point	-70	°C	ASTM D-746 ISO 812
Ozone Resistance 500 hr, 100 pphm O ₃ conc.	Good		ASTM D-1149
MECHANICAL			
Tensile Strength 23°C, 500 mm/min	7.8	MPa	ASTM D-412 ISO 527
Tensile Modulus @ 100% 23°C, 500 mm/min	3.8	MPa	ASTM D-412 ISO 527
Ultimate Elongation 23°C, 500 mm/min	680	%	ASTM D-412 ISO 527
Tear Strength 23°C, 500 mm/min	45	kN/m	ASTM D-624 (Die C) ISO 34 (Die C)
AMMS Parallel	1.4	%	SEP Test Method (fan gate, 6" w X 4" h X 0.125" thick plaque, 85 °F mold temp.)
Transversal	1.8		

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