



NEXPRENE 9555A BLK UV SHF

DESCRIPTION:

NexPrene® 9555A BLK UV SHF 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® 9555A BLK UV SHF provides excellent chemical resistance and physical properties. This product has substantially lower viscosity compared to traditional TPVs and TPEs; allowing for thin wall and difficult molding applications. It is fully recyclable and can be processed using conventional thermoplastic equipment.

APPLICATIONS:

Suitable for applications requiring flexibility in the following markets: automotive window encapsulation, corner molding to TPV and EPDM, appliance, construction, consumer products, electrical & electronics, fluid delivery, hardware, and medical devices.

PROPERTY	TYPICAL VALUE	UNITS	TEST METHOD
PHYSICAL			
Hardness:			
Injection Molded, 5 sec	57	Shore A	ASTM D-2240
Extrusion, 5 sec	55		ISO 868
Injection Molded, 15 sec	55		
Specific Gravity 23°C	0.94		ASTM D-792 ISO 1183
Compression Set			
22 hr @ 70°C	14	%	ASTM D-395
70 hr @ 125°C	38		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	4.0	MPa	ASTM D-412 ISO 527
Tensile Modulus @ 100% 23°C, 500 mm/min	2.2	MPa	ASTM D-412 ISO 527
Ultimate Elongation 23°C, 500 mm/min	320	%	ASTM D-412 ISO 527
Tear Strength 23°C, 500 mm/min	23	kN/m	ASTM D-624 (Die C) ISO 34 (Die C)
AMMS Parallel	1.2	%	SEP Test Method (fan gate, 6" w X 4" h X 0.125" thick plaque, 85 °F mold temp.)
Transversal	1.6		

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