SOLVAY ENGINEERED POLYMERS

technical data

NEXPRENE 9565A BLK UV SHF

DESCRIPTION:

NexPrene® 9565A 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® 9565A 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, automotive weather seal applications, appliances, business machines, construction, consumer products, electrical & electronics, fluid delivery, and hardware.

PROPERTY	TYPICAL VALUE	UNITS	TEST METHOD
PHYSICAL			
Hardness:			
Injection Molded, 5 sec	65		ASTM D-2240
Extrusion, 5 sec	62	Shore A	
Injection Molded, 15 sec	62		ISO 868
Specific Gravity			ASTM D-792
23˚C	0.94		ISO 1183
Compression Set			
22 hr @ 70˚C	16		ASTM D-395
70 hr @ 125˚C	48	%	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	5.2	MPa	ASTM D-412
			ISO 527
Tensile Modulus @ 100%			
23˚C, 500 mm/min	2.8	MPa	ASTM D-412
			ISO 527
Ultimate Elongation			
23˚C, 500 mm/min	450	%	ASTM D-412
			ISO 527
Tear Strength			
23˚C, 500 mm/min	30	kN/m	ASTM D-624 (Die C)
			ISO 34 (Die C)
AMMS			SEP Test Method (fan gate,
Parallel	1.2	%	6” w X 4” h X 0.125” thick
Transversal	1.6		plaque, 85 °F mold temp.)

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