SOLVAY ENGINEERED POLYMERS

technical data

NEXPRENE 9585A

DESCRIPTION:

NEXPRENE® 9585A 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® 9585A 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® 9585A 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	88		ASTM D-2240
Extrusion, 5 sec	86	Shore A	
Injection Molded, 15 sec	85		ISO 868
Specific Gravity			ASTM D-792
23˚C	0.96		ISO 1183
Compression Set			
22 hr @ 70˚C	40		ASTM D-395
70 hr @ 125˚C	65	%	ISO 815
			ASTM D-395
			ISSO 815
Brittle Point	-60	˚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	11.7	MPa	ASTM D-412
			ISO 527
Tensile Modulus @ 100%			
23˚C, 500 mm/min	5.9	MPa	ASTM D-412
			ISO 527
Ultimate Elongation			
23˚C, 500 mm/min	640	%	ASTM D-412
			ISO 527
Tear Strength			
23˚C, 500 mm/min	70	kN/m	ASTM D-624 (Die C)
			ISO 34 (Die C)
AMMS			SEP Test Method (fan gate,
Parallel	1.6	%	6” w X 4” h X 0.125” thick
Transversal	1.8		plaque, 85 °F mold temp.)

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