SOLVAY ENGINEERED POLYMERS

technical data

NEXPRENE 9087A

DESCRIPTION:

NexPrene® 9087A thermoplastic vulcanizate is a fully crosslinked, EPDM/PP compound. It is designed to replace thermoset elastomers, such as EPDM or polychloroprene, and traditional thermoplastic TPVs. NexPrene® 9087A provides the performance of vulcanized rubber with the advantage of low-cost thermoplastic processing.

APPLICATIONS:

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

PROPERTY	TYPICAL VALUE	UNITS	TEST METHOD
PHYSICAL			
Hardness:			
Injection Molded, 5 sec	89	Shore A	ASTM D-2240
Extrusion, 5 sec	85		ISO 868
Injection Molded, 15 sec	87		
Specific Gravity			
23˚C	0.95		ASTM D-792
	0.96		ISO 1183
Compression Set			
24 hr @ 23˚C	48	%	ASTM D-395
			ISO 815
72 hr @ 125˚C	55		ASTM D-395
			ISSO 815
Brittle Point	-60	˚C	ASTM D-746
	-70		ISO 812
Ozone Resistance			
500 hr, 100 pphm O_3 conc.	Excellent		ASTM D-1149
MECHANICAL			
Tensile Strength			
23˚C, 500 mm/min	11.9 (1726)	MPa (PSI)	ASTM D-412 ISO 527
Tensile Modulus @ 100%			
23˚C, 500 mm/min	6.8 (986)	MPa (PSI)	ASTM D-412 ISO 527
Ultimate Elongation			
23˚C, 500 mm/min	660	%	ASTM D-412 ISO 527
Tear Strength			
23˚C, 500 mm/min	55.0 (314)	kN/m (lb/in)	ASTM D-624 (Die C) ISO 34 (Die C)

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