SOLVAY ENGINEERED POLYMERS

technical data

NEXPRENE 9040D

DESCRIPTION:

NexPrene® 9040D thermoplastic vulcanizate is a fully crosslinked, EPDM/PP compound. It is designed for injection molding, extrusion, and blow molding applications (with no drying prior to processing) where soft touch and flexibility are needed. These materials are easy to color (due to extreme white neutral color), weatherable, and may be recycled with other polyolefins.

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	42		ASTM D-2240
Extrusion, 5 sec	40	Shore D	
Injection Molded, 15 sec	40		ISO 868
Specific Gravity			
23˚C	0.94		ASTM D-792 ISO 1183
IRM 903 Oil, Vol. Swell			
70 hr @ 125˚C	52	%	ASTM D-471 ISO 1817
Compression Set			
22 hr @ 70˚C	42	%	ASTM D-395 ISO 815
70 hr @ 125˚C	72		ASTM D-395
70 hr @ 125˚C	74		ISSO 815
Brittle Point	-30	˚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	18	MPa	ASTM D-412 ISO 527
Tensile Modulus @ 100%			
23˚C, 500 mm/min	9	MPa	ASTM D-412 ISO 527
Ultimate Elongation			ASTM D-412
23˚C, 500 mm/min	1200	%	ISO 527
Tear Strength			
23˚C, 500 mm/min	81	kN/m	ASTM D-624 (Die C) ISO 34 (Die C)

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