

SANTOPRENE® DEV 8211-35 Blk (PRELIMINARY)

A soft, black, non-hygroscopic thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in difficult injection molding applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Non-hygroscopic product, requires little to no drying before processing..
- Excellent ozone resistance.
- Used in sealing applications.
- Recommended for applications requiring excellent flex fatigue resistance.

Typical mechanical properties

Stress at 100% elongation	145 psi	ISO 527-1/-2 or ISO 37
Stress at break	421 psi	ISO 527-1/-2 or ISO 37
Elongation at break	350 %	ISO 527-1/-2 or ISO 37
Brittleness Temperature	-85 °F	ASTM D 746
Low temperature brittleness	-85 °F	ISO 812
Shore A hardness, 15s	38	ISO 48-4 / ISO 868
Shore hardness change, after ageing	3	ISO 48-4 / ISO 868
Compression set at 23°C, 24h	10 %	ISO 815
Compression Set, 125°C, 70h	36 %	ISO 815

Other properties

Density	485 lb/gal	ISO 1183
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Injection

Processing Moisture Content	0.08 %	
Max. regrind level	20 %	
Melt Temperature Optimum	419 °F	Internal
Max. mould temperature	75.2 - 126 °F	
Vent depth	1 mil	
Back pressure	50 - 99.9 psi	
Injection speed	fast	

Processing Texts

Processing Notes	Desiccant drying for 3 hours at 80°C (180°F) can be performed if desired. Santoprene® TPV has a wide temperature processing window from 175 to 230°C (350 to 450°F) and is incompatible with acetal and PVC.
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