Trexprene® D50BU

Thermoplastic Vulcanizate

Mitsubishi Chemical Performance Polymers, Inc.

Message:

Product Description: TREXPRENE ® D50BU is a heat stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This Black compound is intended primarily for underhood applications such as mats, seals, gaskets, air ducts, CVJ boots, covers, grommets or other parts where softness and conformity are needed. This material can be processed using Injection Molding, Extrusion, Blow Molding or other melt processing techniques.

General Information	
Additive	Heat Stabilizer
Features	Heat Stabilized Soft
Uses	Automotive Under the Hood Constant Velocity Joint Boots Gaskets Grommets Protective Coverings Seals
Appearance	Black
Forms	Pellets
Processing Method	Blow Molding Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.900 to 0.960	g/cm³	ISO 1183
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, 15 sec)	47 to 53		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress - Across Flow [1] (100% Strain)	13.9	MPa	ISO 37
Tensile Stress - Across Flow [2] (Yield)	18.7	MPa	ISO 37
Tensile Elongation - Across Flow [3] (Break)	700	%	ISO 37
Tear Strength - Across Flow [4]	91	kN/m	ISO 34-1
Compression Set			
70°C, 24 hr	63	%	ASTM D395B
70°C, 24 hr [5]	63	%	ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air			ISO 188
135°C, 1000 hr	13	%	

150°C, 168 hr	-7.1	%	
Change in Tensile Strain at Break in Air			ISO 188
135°C, 1000 hr	-13	%	
150°C, 168 hr	16	%	
Change in Tensile Stress (125°C, 70 hr, in IRM 903 Oil)	-26	%	ISO 1817
Change in Tensile Strain at Break (125°C, 70 hr, in IRM 903 Oil)	-34	%	ISO 1817
Change in Volume (125°C, 70 hr, in IRM 903 Oil)	32	%	ISO 1817
Change in Tear Strength - 70 hrs, in IRM 903 Oil (125°C)	-48	%	ISO 1817
Change in Tensile Properties			
Stress at 100% Elongation in Air, 168 hrs : 150°C	11	%	ISO 188
Stress at 100% Elongation in IRM 903 Oil, 70 hrs : 125°C	-11	%	ISO 1817
Ozone Resistance (40°C) [6]	0 Rating		ISO 1431-1

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature			
--	-30.0	°C	ASTM D746
Type B	-30.0	°C	ISO 812

NOTE	
1.	Type 1, 500 mm/min
2.	Type 1, 500 mm/min
3.	Type 1, 500 mm/min
4.	Method Ba, Angle (Unnicked), 500 mm/min
5.	Type A
6.	100 pphm, Method A

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