MITSUBISHI CHEMICAL PERFORMANCE POLYMERS

Product Data Sheet
TREXPRENE® A70BI-HF
PP/EPDM Based Vulcanized TPR

Product Description: TREXPRENE® A70BI-HF is a heat stabilized and UV Stabilized PP/EPDM based Thermoplastic Vulcanized Elastomer (TPV). This high flow, black compound is intended primarily for injection molding applications where longer flow distances and good surface appearance is needed. The material is primarily for under the hood and interior applications. This material can be processed using Injection Molding, Extrusion, Blow Molding or other melt processing techniques.

Property	**Test Method**	**Unit**	**Typical Values**
Hardness	ISO 868	Shore A (15 second delay)	74±4
Density	ISO 1183	g/cm^3	0.95±0.04
Tensile Stress at Break	ISO 37, Type 1, 500mm/min	MPa ⊥ //	5.5 5.7
Tensile Stress at 100%,	ISO 37, Type 1, 500mm/min	MPa ⊥ //	2.8 3.6
Ultimate Elongation	ISO 37, Type 1, 500mm/min	MPa ⊥ //	620 510
Tear Strength	ISO 34-1, Method B, 500 mm/min	kN/m ⊥ //	26.9 27.3
Compression Set at 70°C/24hrs	ASTM D395-B, ISO 815-A	%	32.6
Brittle Temperature	ASTM D746, ISO 812B	°C	-53
Long Term Heat Aging Performance	1000 h @ 110°C followed by ISO 37	% Retention Tensile % Retention Elongation	99.0 90.0
Ozone Resistance	ISO 1431-1, "A" 100pphm, 40°C	Rating	0
Fogging Number, Photometric	SAE J1756, GMW3236	% Reflectance	85.8 Dry Fog
Odor	GMW3205 Code B	Rating	≥ 7
Colorfastness to Light	SAE J2412, ISO 105-B06, Cond. 5 1,240.8 kJ/m^2	Change in Color Visual Defects	ΔE < 3.0 No Objectionable defects

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Colorfastness to Burnt Gas	ISO 105-G02, AATCC TM 23, 168 h @ 60°C,	Change in Color Yellowness Index AATCC Rating	ΔE < 3.0 ΔYI < 2.0 AATCC Rating > 4
Natural Weathering, Arizona	105,000 TNR Langleys exposure per GMW3417 L1, F2, G1, T5	Change in Color Visual Defects	ΔE < 3.0 No Objectionable defects
Natural Weathering, Florida	2 years exposure per SAE J1976, Procedure A	Change in Color Visual Defects	ΔE < 3.0 No Objectionable defects
Flammability / Burn rate	FMVSS 302, GMW3232 ISO 3795	mm/min	18.6

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