

TREXPENE® TPV
Automotive Material Approvals

Mitsubishi Chemical Performance Polymers has been a leader in supplying custom material solutions into the Automotive Industry for over 30 years. These materials include, but are not limited to PVC, TPV, and TPE. MCPP has worked hard to support the Automotive Industry by maintaining a lead specification position with various OEMs. Below you will see the current approvals associated with TREXPENE® which is a fully vulcanized thermoplastic elastomer (TPV) based on an EPDM/PP blend. TREXPENE® can be used in a variety of automotive applications including under the hood, interior, exterior and sealing system components. At MCPP, we have the lab accreditation, specification understanding and relationships with the Automotive OEMs to support the market dynamics that influence the need for new approvals on an on-going basis. Therefore, if your material specification needs are not listed below please contact us at MCPP and we will outline a clear plan to support your application's material approval.

Ford Motor Company:

Specification	TREXPENE®	Hardness	Color
WSD-M2D378-A1	A55BU & A55NU	Shore 55A	Standard Black & Natural for under hood applications
WSD-M2D379-A1	A64BU & A64NU	Shore 64A	Standard Black & Natural for under hood applications
WSD-M2D380-A1	A74BU & A74NU	Shore 74A	Standard Black & Natural for under hood applications
WSD-M2D381-A1	A80BU & A80NU	Shore 80A	Standard Black & Natural for under hood applications
WSD-M2D382-A1	A88BU & A88NU	Shore 88A	Standard Black & Natural for under hood applications
WSS-M2D381-A4	A80BI-PV/ NI / CI	Shore 80A -HF	Standard Black, Natural & Colors for interior applications
WSD-M2D378-A2 WSS-M2D510-A5	A55CI / A55CI-HF	Shore 55A	Standard Black, Natural & Colors for interior UV applications
WSD-M2D379-A2 WSS-M2D510-A6	A70SCI, A64CI, A64BI / NI / CI	Shore 64A	Standard Black, Natural & Colors for interior UV applications
WSD-M2D380-A2 WSS-M2D510-A7	A74BI / NI / CI	Shore 74A	Standard Black, Natural & Colors for interior UV applications
WSD-M2D381-A2 WSS-M2D510-A8	A80BI / NI / CI	Shore 80A	Standard Black, Natural & Colors for interior UV applications
WSD-M2D382-A2 WSS-M2D510-A9	A88BI / NI / CI	Shore 88A	Standard Black, Natural & Colors for interior UV applications

General Motors Approvals:

Specification	TREXPENE®	Hardness	Color
APPLICATION: Under the Hood			
GMW15813 Type 4 / GMP.E/P.001	A55BU & A55NU	Shore 55A	Standard Black & Natural for under hood applications
GMW15813 Type 5 / GMP.E/P.002	A64BU & A64NU	Shore 64A	Standard Black & Natural for under hood applications
GMW15813 Type 6 / GMP.E/P.003	A74BU & A74NU	Shore 74A	Standard Black & Natural for under hood applications
GMW15813 Type 7 / GMP.E/P.004	A80BU & A80NU	Shore 80A	Standard Black & Natural for under hood applications
GMW15813 Type 8 / GMP.E/P.005	A88BU & A88NU	Shore 88A	Standard Black & Natural for under hood applications
GMW15813 Type 9 / GMP.E/P.006	D40BU & D40NU	Shore 40D	Standard Black & Natural for under hood applications
GMW15813 Type 10 / GMP.E/P.007	D50BU & D50NU	Shore 50D	Standard Black & Natural for under hood applications
APPLICATION: Exterior			
GMW15812 Type 4 / GMP.E/P.078	A55BW & A55CW	Shore 55A	UV stable Black & Colors for exterior applications
GMW15812 Type 5 / GMP.E/P.029	A67BW & A67NW	Shore 67A	UV stable Black & Colors for exterior applications
GMW15812 Type 6	A74BW & A74CW	Shore 74A	UV stable Black & Colors for exterior applications
GMW15812 Type 7 / GMP.E/P.120	A80BW & A80CW	Shore 80A	UV stable Black & Colors for exterior applications
GMW15812 Type 8 / GMP.E/P.037	A88 BW	Shore 88A	UV stable Black & Colors for exterior applications
GMW15812 Type 9	D40BW & D40CW	Shore 40D	UV stable Black & Colors for exterior applications
GMW15812 Type 10 / GMP.E/P.016	D50BW & D50CW	Shore 50D	UV stable Black & Colors for exterior applications
APPLICATION: Interior			
GMW15816 Type 4 / GMP.E/P.071	A55 CI & A55 NI	Shore 55A	Black, Naturals & UV stable Colors for interior applications
GMW15816 Type 5 / GMP.E/P.082	A65 SCI / A64 CI / A64 NI	Shore 64A	Black, Naturals & UV stable Colors for interior applications
GMW15816 Type 6 / GMP.E/P.117	A70 CI-HF	Shore 70A	Black, Naturals & UV stable Colors for interior applications

Specification	TREXPENE®	Hardness	Color
GMW15816 Type 6 / GMP.E/P.044	A74 CI/ A74 NI / A74SCI	Shore 73A	Black, Naturals & UV stable Colors for interior applications
GMW15816 Type 7	A80 CI & A80 NI	Shore 80A	Black, Naturals & UV stable Colors for interior applications
GMW15816 Type 8 / GMP.E/P.067	A88 CI & A88 NI	Shore 88A	Black, Naturals & UV stable Colors for interior applications
GMW 15702	A45 BW/CW	Shore 45A	Black, & UV stable Colors for exterior applications
GMW 15702	A88 SCI	Shore 88A	UV stable Colors for interior applications

Chrysler Corporation:

Specification	TREXPENE®	Hardness	Application
MS-AR -20A / 100AGN	A55 BU & A55 NU	Shore 55A	Standard Black & Natural for under hood applications
MS-AR- 20B / 100BGN	A64 BU & A64 NU	Shore 64A	Standard Black & Natural for under hood applications
MS-AR -20C / 100CGN	A74 BU & A74 NU	Shore 74A	Standard Black & Natural for under hood applications
MS-AR -20D / 100DGN	A80 BU & A80 NU	Shore 80A	Standard Black & Natural for under hood applications
MS-AR -30A + line callout	D40 BU & D40 NU	Shore 40D	Standard Black & Natural for under hood applications
MS-AR-100 AGV	A55BW	Shore 55A	UV Stable Black for Exterior applications
MS-AR-100 HGV	D50BW	Shore 50D	UV Stable Black for Exterior applications
MS-DB 226 (CPN 4725)	A80 CI HF	Shore 80A	New TPV spec, A80CI HF
MS-DB 226 (CPN 4580/AR26B)	A64 BI, NI, CI	Shore 64A	Black, Natural & Colors
MS-DB 226 (CPN 4676)	Chrysler's New TPV spec, A55CI and A55CI HF (high flow)		
MS-DB 226 (CPN 4662)	Chrysler's New TPV spec, A74CI and A74CI HF (high flow)		
MS-DB 226 (CPN 4902)	A45BU / CI, 45 Shore A standard black or colors for UV applications		

Specification	TREXPENE®	Hardness	Application
MS-DB 226 (CPN 4787)	A88SCI-HF, High flow A88 Shore A for UV Color applications		

Inteva (formerly Delphi):

Specifications	TREXPENE®	Hardness	Application
DX300001	D50 BU & D50 NU	Shore 50D	Standard Black & Natural primarily for under hood applications
DX300367	A55 BU & A55 NU	Shore 55A	Standard Black & Natural primarily for under hood applications

Toyota Motor Company:

Specification	TREXPENE®	Hardness	Application
TSM 5529 Class 2B Application	A70CI / A74CI	Shore 70-74A	Pre-Colored or Black Interior parts with UV, cup holders, bin mats – pre-colored
TSM 5529 Class 2B Application	A70SCI	Shore 70-74A	Pre-Colored or Black Interior parts with Anti-wear / Slip package for high durability

Nissan Motor Company:

Specification	TREXPENE®	Hardness	Application
Nissan Part # 02001 LH / 02002 RH	A80BW	Shore 80A	UV Stable Black for Exterior & Under the hood applications
Nissan Part# 4101 LH / 4102 RH	D40BU	Shore 40D	Standard Black for Exterior & Under the hood applications

Mitsubishi Motor Company:

Specification	TREXPENE®	Hardness	Application
Mitsubishi Part # MR991091/92	D40BU	Shore 40D	Standard Black for Exterior & Under the hood applications

Other Automotive OEM's such as Nissan, Honda, Mazda, Kia, Hyundai and VW have specifications for "soft materials" but do not have a formal system for approvals.

Please contact jeff_davis@m-chem.com, derrek_greenberg@m-chem.com, or brain_gumbko@m-chem.com for a TREXPENE® grade recommendation or other needed information.

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