

PE PTC-1

MARLEX[®] POLYETHYLENE RESINS AND POTENTIAL AUTOMOTIVE APPLICATIONS

Application	Product	Benefits
Electrical and control cables: Wire insulation, electrical conduit and tubing, control cable jacket and/or liner.	HHM 4903 HHM 5202BN HXM 50100	Good electrical properties, low friction.
Exterior and under-body: Pick-up truck toolboxes and bed liners. Fender liners.	HXM 50100	Tough, excellent impact and stress crack resistance.
Fuel system: Mono-layer tanks, tank liners, crash shields, 4WD tank/radiator skid plates, filter housings, fuel tank vent tubes.	HXM 50100 C513UV	Toughness, excellent high-impact resistance. Resists fuels.
Interior, heater and air conditioning: Light-truck center front-seat consoles, heater and air conditioner ducts, fresh air intake and defroster ducts, seat belt retractor covers.	HHM 4903 HHM 5202BN HXM 50100	Low cost. Easily blow molded into complex hollow shapes requiring no assembly.
Material handling: Shipping dunnage, pallets, transmission trays, modular containers.	HXM 50100	Toughness, chemical and low temperature impact resistance.
Reservoirs: Coolant recovery, vacuum surge canister, windshield-washer bottle.	HHM 4903 HHM 5202BN HXM 50100	Good balance of ESCR and Impact strength.
Seating components and under hood: Load floors, flipper panels, headrest fillers, armrest structures, seat base cushion frames.	HXM 50100	Toughness, excellent impact resistance.
Misc. components: Plugs, grommets, bumpers, spacers.	1007	Softness and flexibility.
General-purpose injection-molded parts:	9006	Good stiffness.

Marlex® Polyethylene Resins Meeting Automotive Specifications

Resin	Specification Number			
	General Motors	Ford	Chrysler	Toyota
HHM 4903 HDPE Specs not being used for new models	GMW16426P-PE-T1	New Spec Approval in Process	MS-DB53 Type B MS-DB471 Type A,B	TSM5518G Class 2 ^c
	GMP.PE.054	ESA-M4D197-A WSG-M4D901-A1		
HHM 5202BN HDPE Specs not being used for new models	GMW16426P-PE-T2 ^a	ESB-M4D145-A	MS-DB471 Type A,B	TSM5518G Class 2 ^c
	GMP.PE.004			
HXM 50100 HDPE Specs not being used for new models	GMW16P-PE-T2	WSS-M4D145-B1 ^a WSS-M4D955-B ^a WSK-M4D695-A WSK-M4D695-B1	MS-DB53 Type C MS-DB471 Type A,B,C	TSM5518G Class 2 ^c
	GMP.PE.007 GMP.PE.050	ESA-M4D197-A ESL-M4D197-A2		
C513UV		WSS-M4D645-B1 ^b		
1007 LDPE	GMW17061		MS-DB51 Type A	TSM5518G Class 1 ^c
9006 HDPE Specs not being used for new models	New Spec Approval in Process			
	GMP.PE.008 ^b			

Notes:

- OEM approval to this specification is pending. Certification package has been submitted to OEM.
- Certification package has not been submitted to OEM for approval for this grade.
- These grades meet the Toyota specification referenced for exterior applications. Interior testing has not been completed.

Ultimate approvals must be obtained by the molder on finished parts tested to ensure they conform to automotive specifications.

This document does not cover all possible applications. Even though the specifications listed above are for U.S. based auto makers, Marlex® polyethylene has been successfully used by Asian and European auto makers also. For further assistance, please contact the Polyethylene Sales and Marketing team at 1-800-231-1212. Links to our polyethylene resins and MSDS sheets can be found at the following web site: <http://www.cpchem.com>.

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