

## UV Stable Black Co-Polymer Plastic

### Description:

This material is designed for extrusion applications requiring high melt strength and excellent toughness. It has passed USP Class VI testing. It has a UL yellow card flame rating of UL94HB. It features good heat aging resistance, good impact resistance, low temperature impact resistance, good melt strength and good stiffness.

### Typical Physical Properties

Physical Property	Test Method	Typical Results
Density – Specific Gravity	ASTM D 792, Method B ISO 1183-1, Method A	0.90 g/cm <sup>3</sup>
Melt Flow Rate (230°C/2.16 kg)	ASTM D 1238	0.450 g/10min
Tensile Strength @ Yield	ASTM D 638 @ 2 in/min @ 50 mm/min	4100 psi 1240 MPa
Flexural Modulus	ASTM D 790 @ 0.05 in/min, 1% Secant, Procedure A @ 1.3 mm/min, 1% Secant, Procedure A ISO 178	180,000 psi 1240 MPa 1180 MPa
Elongation @ Yield	ASTM D 638	11%
Notched Izod Impact	ASTM D 256, Method A 73°F 23°F ISO 180 23°C -40°C	No break ft-lb/in No break ft-lb/in 64 kJ/m <sup>2</sup> 4.0 kJ/m <sup>2</sup>
Tensile Stress @ Yield	ISO 527-1, -2 @ 23°C	26 MPa
Tensile Strain @ Yield	ISO 527-1, -2 @ 23°C	11%
Charpy Impact Strength - Notched	ISO 179 23°C -40°C	66 kJ/m <sup>2</sup> 2.9 kJ/m <sup>2</sup>
Rockwell Hardness (R-Scale)	ASTM D 785 ISO 2039-2	79
Deflection Temperature Under Load	ASTM D 648 @ 66 psi, Unannealed @ 0.45 MPa, Unannealed ISO 75B-1, -2 @ 0.45 MPa, Unannealed @ 1.80 MPa, Unannealed	185°F 85°C 78°C 49°C



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**Specifications Met**

Specifications		
<i>FCA</i>		MS-DB500 CPN 3735
<i>FCA</i>		MS-DB500 CPN4002
<i>Ford Motor Company</i>		ESA-M4D281-A
<i>Ford Motor Company</i>		WSS-M4D932-A1
<i>Ford Motor Company</i>		WSS-M4D932-B1
<i>General Motors</i>		GMP.PP.021
<i>General Motors</i>		GMW15702-150041
<i>General Motors</i>		GMW17178-T1
<i>Opel</i>		QK003721
	ASTM D4101	PP0500H980
	ASTM D5857	PP0340
	ASTM D5857	PP0441

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