

High Reflectance PVC vs. Metalized Polycarbonate (PC)

When it comes to lens performance, GEON Rigid™ PVC offers higher light reflectance and other performance benefits, often at a lower cost, than typical metalized PC.

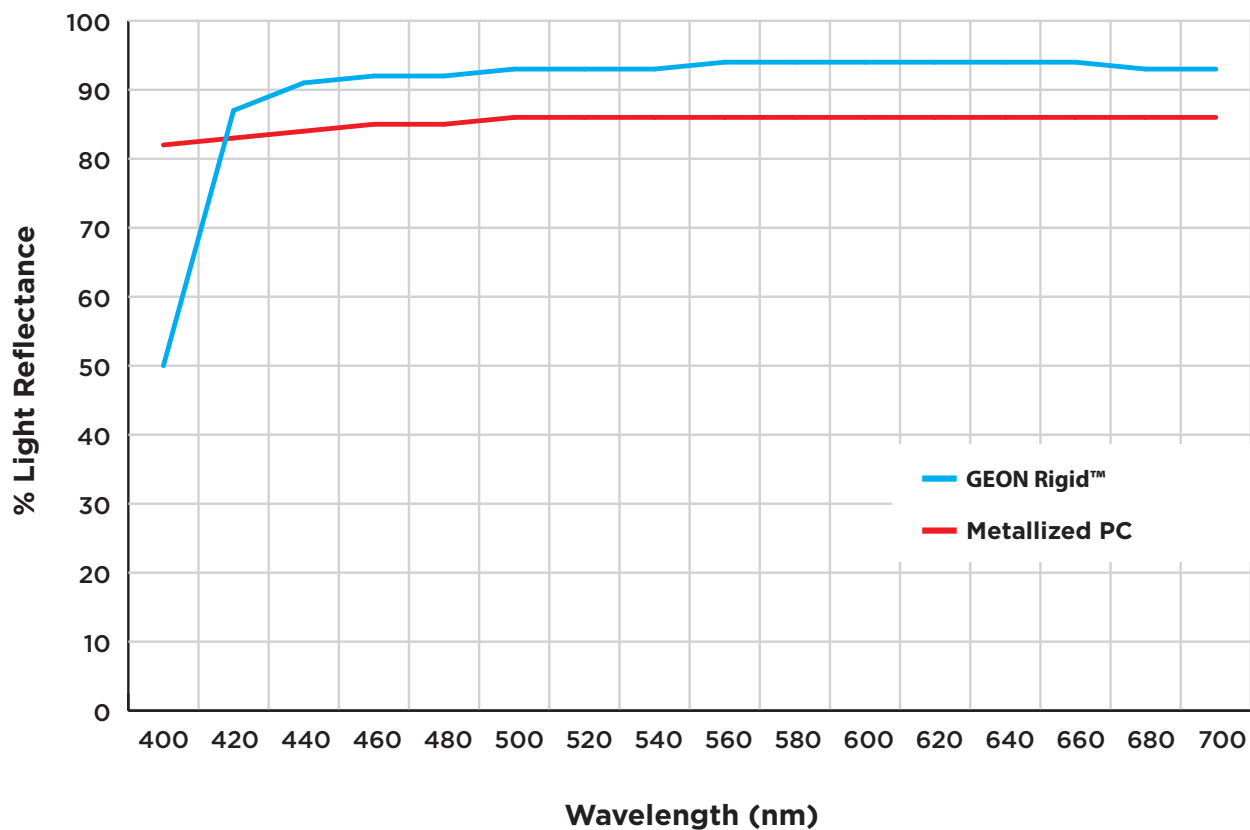
Lens Performance	GEON Rigid™ PVC	Typical Metallized PC
Light Reflectance ¹ (see chart on other side)	89% at 420nm 95% at 550nm 92% at 680nm	83% at 420nm 86% at 550nm 86% at 680nm
Tensile Strength ² Tensile Modulus ² Tensile Elongation (break) ²	6200 psi 340,000 psi 45%	9500 psi 350,000 psi 120%
Flammability (UL 94)	V0 @ 1.5mm 5VA @ 1.5mm	HB @ 2.7mm V2 @ 0.75mm
Heat Deflection Temperature ³	163°F/73°C	182°F/83°C
RTI Electric (UL 746)	194°F/90°C	257°F/125°C
Chemical Resistance	Excellent	Fair
Typical Lens Profile Cost	Eliminates Vacuum Metallization & Packaging ⁴	Baseline

¹ ASTM D-1331-09 measured by Polymer Diagnostics, Inc. (PDI) on molded parts

² ASTM D-638

³ ASTM D-648 66 psi, unannealed, 0.125"

⁴ Savings depends on profile size and production volume



1-800-GET-GEON
SALES@GEON.COM

Copyright © 2019, GEON Performance Solutions. GEON Performance Solutions makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. GEON makes no warranties or guarantees respecting suitability of either GEON's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. GEON MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

GEON
Performance Solutions