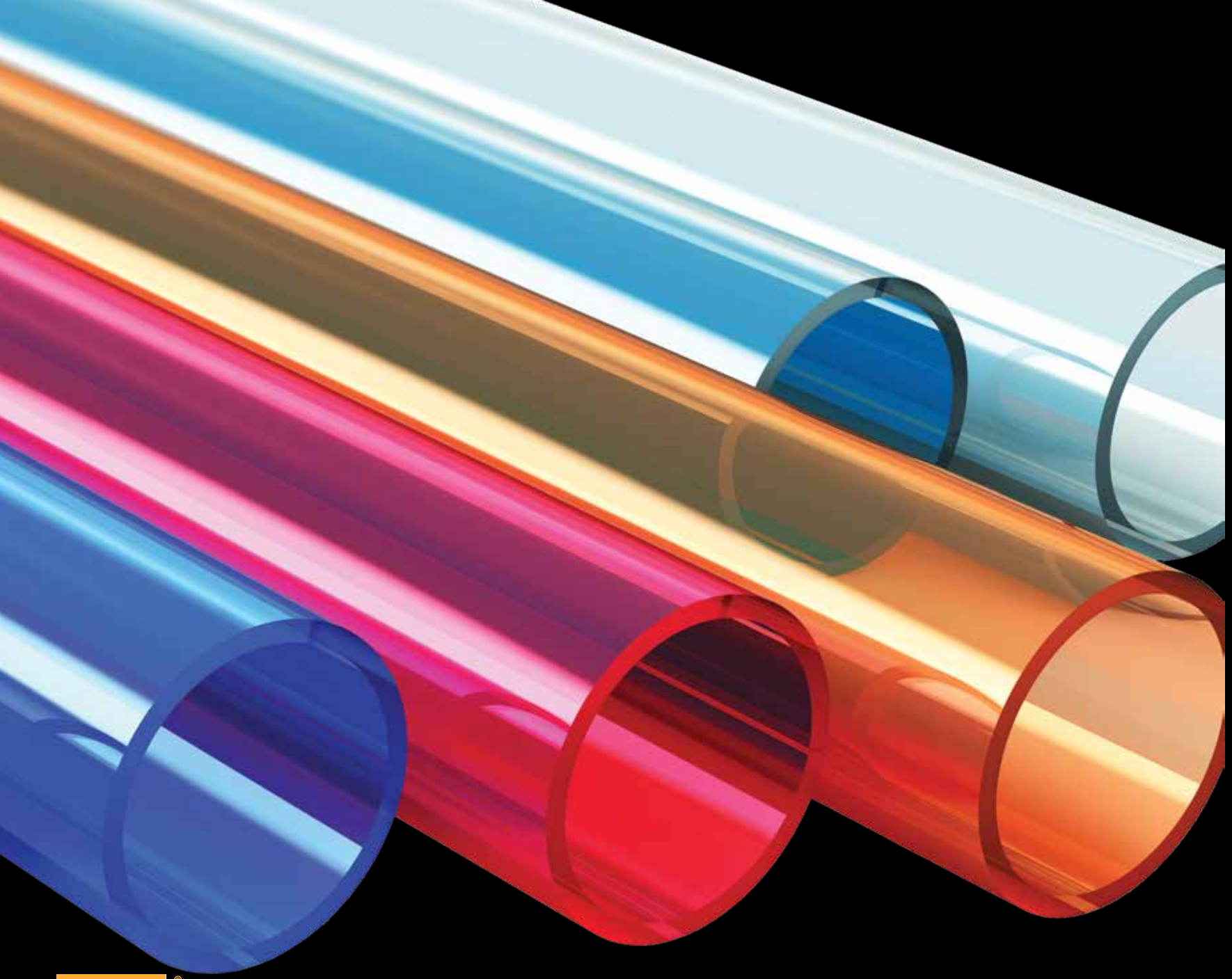

POLYCARBONATE

PEXCO®

POLYCARBONATE

Pexco's Polycarbonate blends present excellent options for applications where strength and impact-resistance are a must. As a result, Polycarbonate components are frequently used in environments where there is a high risk of damage from vandalism, blunt force, or where a higher flammability rating is required. This includes schools, hospitals, corridors, dormitories, incarceration facilities, common areas, parking garages, transit stations, and other high traffic area applications. Our optical blends are created to deliver a perfect balance of light transmission and diffusion for every project.

Property	ASTM Test Method	General Purpose PC
Physical		
Specific Gravity	D-792	1.2g/cm3
Optical		
Light Transmission	ASTM D-1003	88%
Mechanical		
Rockwell Hardness	D-785 (M Scale)	77
Tensile Strength	D-638	62 MPa
Tensile Modulus	ISO 527-2/1	2400 MPa
Flexural Strength	D-780	90 Mpa
Flexural Modulus	D-790	2260 MPa
Notched Izod Impact (3.20mm)	D-256	930 J/m
Thermal		
Deflection Temp Under Load (1.8 MPa, Unannealed)	D-648 (°C)	131
Flammability	UL94	HB at 1.50mm V-2 at .400mm

Pexco provides lighting design and manufacturing expertise to help OEMs identify the best material blend, light diffusion, hiding power, efficiency, and overall manufacturability of custom profiles. We also help address design and engineering requirements of unique lighting fixtures. With multiple tool and die shops across the nation, and a lighting Center of Excellence for plastic profile manufacturing, Pexco possesses an extensive array of services and expertise to help you transform your idea into reality.

Learn more at **www.pexco.com/lighting**

PEXCO®

Where Ideas Take Shape.

The specifications listed on this table are average values compiled from data supplied by manufacturers of plastic resins. They are offered as general guidelines only. Pexco is not responsible for their accuracy, makes no guarantee or warranty for any of the above data, and assumes no liability or obligation for results obtained by users of this information. Users of a material should make their own tests to determine its suitability for their particular application. Statements concerning possible or suggested usage of materials are not constructed as constituting recommendation for use of such materials in the infringement of any patent.