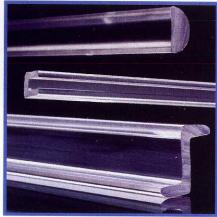


PETG

Fabrication and Display Profiles



- Excellent impact strength
- Sheet to shape match
- · Equal sheet to shape thermal expansion
- · Sheet to profile bondability
- Rod sizes: 1/16" to 2"

Excelon PETG is the newest line of extruded profiles from Thermoplastics. Manufactured from Eastman Chemical Company's EASTAR™ resin, Excelon profiles are completely compatible with sheet of Eastman's new high clarity PETG resin, SPECTAR™ copolymer, and can be bonded to it with the agent of choice.

Beyond providing exceptional clarity, Excelon PETG profiles offer excellent impact strength, sheet to shape match, equal sheet to shape thermal expansion and sheet to profile bondability

Stock PETG profiles for distribution include Z Bar, Step Strip and U Channels for 0.060, 0.080, 0.100, and 0.125" sheet gauges. J Bar and Half Round are made-to-order items. Its strength and clarity make Excelon PETG the ideal choice for:

- Fabricators
- Exhibit houses
- · Display manufacturers
- POP assemblers
- Slat-wall display units
- Museums

General Properties of Excelon PETG

Shake see shake see see saarah se		
Property*	Test Method ^b	Value, Units
General Properties		
Specific Gravity	D 792	1.3
Water Absorption, 24 n immersion	D 570	0.13%
Mold Shrinkage Parallel to Flow,		
3.2 -mm (0.125-in.) thickness	D 955	0.002-0.005 mm/mm
Thermal Properties		
DeflectionTemperature @ 0.455 MPa (66 psi)	D 648	69°C (157°F)
DeflectionTemperature @ 1.82 MPa (264 psi)	D 648	60°C (140°F)
Mechanical Properties		
Tensile Stress @ Break	D 638	30 MPa (4300 psi)
Tensile Stress @ Yield	D 638	49 MPa (7100 psi)
Elongation @ Break	D 638	150%
Elongation @ Yield	D 638	14.3%
Tensile Modulus	D 638	2010 MPa
Flexural Strength	D 790	71 MPa (10,000 psi)
Flexural Modulus	D 790	2200 MPa (3 x 10 ⁵ psi
Rockwell Hardness, R Scale	D 785	106
Izod Impact Strength, Notched @ 23°C (73°F)	D 256	98 3/m (1.8 ft-lbf/in.)
lzod Impact Strength, Notched @ -40°C (-40°F)	D 256	27 3/m (0.5 ft-lbf/in.)
Izod Impact Strength, Unnotched @ 23°C (73°F)	D 4812	NB ft-lbf/in.
Izod Impact Strength, Unnotched @ -40°C (-40°F)	D 4812	NB ft-lbf/in.
Optical Properties		
Haze	D 1003	0.3%
Total Transmittance	D 1003	91%

- *Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.
 *Unless noted otherwise, the test method is ASTM.
- ^cUnits are in S2 or US customary units.

Properties reported here are based on limited testing. Thermoplastic Processes, Inc. makes no representation that the material in any particular shipment will conform exactly to the values given. TPI does not recommend Excelon PETG for outdoor use or in the presence of heavy UV.



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