

Technical Data

Product Description

SABIC® PMMA 170P is an optical LGP extrusion grade with low foreign matter count and low UV absorbance. The grade is available in pellet form.

General

Material Status	• Commercial: Active		
UL Yellow Card ¹	• E45329-104499280		
Search for UL Yellow Card	• SABIC • SABIC® PMMA		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Automotive Lighting	• Lighting Applications	• Rigid Packaging

Physical	Nominal Value Unit	Test Method
Density	1.19 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.7 g/10 min	ISO 1133
Water Absorption (24 hr, 23°C)	0.30 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	3300 MPa	ISO 527-1/1
Tensile Stress	75.0 MPa	ISO 527-2
Tensile Strain (Break)	7.0 %	ISO 527-2
Flexural Modulus ³	3300 MPa	ISO 178
Flexural Stress	130 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.6 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	20 kJ/m ²	ISO 179

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)	98	ISO 2039-2

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	94.0 °C	ISO 75-2/A
Vicat Softening Temperature	101 °C	ISO 306/B50
CLTE - Flow (-30 to 30°C)	6.0E-5 cm/cm/°C	ASTM D696
Thermal Conductivity	0.20 W/m/K	ASTM C177

Optical	Nominal Value Unit	Test Method
Refractive Index	1.490	ISO 489
Light Transmittance (Total)	93.0 %	ISO 13468
Haze	0.300 %	ISO 14782

Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.

³ 2.0 mm/min



Where to Buy

Supplier

SABIC

Web: <http://www.sabic.com/>

Distributor

AECTRA

Telephone: +33-4-72-54-36-42

Web: <https://www.aectra.fr/>

Availability: Bulgaria, Romania

AGI-Augusto Guimarães & Irmão

Telephone: +351-22753-7400

Web: <https://www.agi.pt/en/>

Availability: Portugal

GRÄSSLIN

Telephone: +49-7721-4040-261

Web: <https://www.graesslin-kunststoffe.de>

Availability: Germany

Guangzhou Hua Xiu Plastics Co. Ltd

Telephone: +86-20-82582555

Web: <http://www.va-so.cn/>

Availability: Asia Pacific

Guzmán Polymers

Telephone: +34-963-992-400

Web: <https://www.guzmanglobal.com/en/productos/plastics/>

Availability: Italy, Spain, Turkey

Lenorplastics

Telephone: +41-61-706-11-11

Web: <https://www.lenorplastics.ch>

Availability: Switzerland

Plastoplan

Telephone: +43-1-25040-0

Web: <https://www.plastoplan.com/>

Availability: Austria, Czech Republic, Hungary, Poland, Slovakia

POLYMIX

POLYMIX is a Pan European distribution company. Contact POLYMIX for availability of individual products by country.

Telephone: +33-3-8920-1380

Web: <http://www.polymix.eu/>

Availability: France

