

CYCOLAC* GPP4600 Resin

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Product Description

Extrusion profile grade for coextrusion. Recommended for substrate only.

General

Uses	• Profiles
Forms	• Pellets
Processing Method	• Coextrusion • Profile Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.80	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	2620	MPa	ASTM D638
Tensile Strength ³ (Yield)	50.3	MPa	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	2690	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 50.0 mm Span)	81.4	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	320	J/m	ASTM D256
Instrumented Dart Impact 23°C, Total Energy	50.2	J	ASTM D3763
Gardner Impact 23°C, 3.20 mm, Extruded Sheet	41.0	J	Internal Method
Drop Impact Resistance ⁵	160	J/cm	ASTM D4226

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed, 6.40 mm	100	°C	ASTM D648
1.8 MPa, Unannealed, 6.40 mm	91.1	°C	
1.8 MPa, Annealed	101	°C	
CLTE Flow: -40 to 40°C	0.000070	cm/cm/°C	ASTM E831
Transverse: -40 to 60°C	0.000070	cm/cm/°C	

Optical	Nominal Value	Unit	Test Method
Gardner Gloss (60°, Untextured)	97		ASTM D523