

Thermylene® P7-45FG-0790

Asahi Kasei Plastics North America Inc. - *Polypropylene*

General Information

Product Description

This high performance compound has been optimized for high strength/stiffness and has good creep resistance. It is suitable to enable light-weighting in structural applications by replacement of high density engineered polymer compounds.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 45% Filler by Weight		
Features	• Creep Resistant	• High Stiffness	• High Strength
Uses	• Automotive Applications	• Structural Parts	
Automotive Specifications	• GM GMP.PP.118	• STELLANTIS MS-DB-500 CPN 4156	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	16000	psi	ISO 527-2
Flexural Modulus	1.49E+6	psi	ISO 178
Flexural Stress	24500	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	ft·lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	304	°F	ISO 75-2/A

Notes

¹ Typical properties: these are not to be construed as specifications.

