

POLYTROPE® STR 1025EU-01 NATURAL

Enhanced TPO Polyolefin

A. Schulman Inc.

Message:

POLYTROPE STR 1025EU resin is a high melt strength thermoformable TPO that provides high impact resistance and moderate stiffness. It can be extruded in smooth or textured surfaces, or co-extruded with a POLYTROPE STR enhanced polyolefin cap resin to further customize its' durability, appearance, or feel for interior and exterior applications. The capability of POLYTROPE STR 1025EU to provide an exceptionally smooth surface in extrusion and thermoforming makes it well suited to lamination processes with decorative films. It is also easily colored and is paintable by standard TPO paint systems.

General Information	
Features	Durable
	Good Melt Strength
	Good Weather Resistance
	Low Temperature Impact Resistance
	Paintable
	Recyclable Material

Forms	Pellets
Processing Method	Coextrusion
	Extrusion
	Profile Extrusion
	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.988	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0	g/10 min	ISO 1133
Molding Shrinkage (23°C, 24 hr, 3.18 mm)	0.90 to 1.2	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ² (Yield, 23°C)	22.7	MPa	ISO 527-2
Tensile Strain ³ (Break, 233°C)	700	%	ISO 527-2
Flexural Modulus - Chord ⁴ (23°C)	1720	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact - Flow			ASTM D256
-30°C, 3.18 mm, Injection Molded	260	J/m	
23°C, 3.18 mm, Injection Molded	No Break		
Instrumented Dart Impact (-30°C, Total Energy, Ductile Failure)	47.5	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	93.9	°C	ISO 75-2/Bf
CLTE - Flow (-30 to 100°C)	9.9E-5	cm/cm/°C	ASTM E831
Flammability	Nominal Value		Test Method
Flame Rating (3.18 mm, All Colors)	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60°, 3180 µm, Thermoformed, Smooth)	20 to 40		ISO 2813
Additional Information	Nominal Value	Unit	Test Method
Heat Sag - 8 inch span, two point support (149°C, 3.20 mm)	0.00	mm	ASTM D3769
NOTE			
1.	Method A		
2.	Type 1, 50 mm/min		
3.	Type 1, 50 mm/min		
4.	Type 1A, 2.0 mm/min		

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