POLYTROPE® STR 1040EU-01 NATURAL

Good Melt Strength

Enhanced TPO Polyolefin

A. Schulman Inc.

General Information

Features

Message:

POLYTROPE STR 1040EU resin is a high melt strength thermoformable TPO that balances impact resistance and high stiffness, enabling processors and end users to reduce product weight and improve processing efficiency without sacrificing product performance. The attractive performance features of POLYTROPE STR 1040EU resin uniquely positions it as a economically favorable option to traditional engineered resins. 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 1040EU 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.

	Good Weather Resistance		
	Low CLTE		
	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	1.09	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16			
kg)	0.50	g/10 min	ISO 1133
Molding Shrinkage (23°C, 24 hr, 3.18 mm)	0.70 to 0.90	%	ISO 294-4
Mechanical	Nominal Value		
	Normilai value	Unit	Test Method
Tensile Stress ² (Yield, 23°C)	25.7	Unit MPa	Test Method ISO 527-2
Tensile Stress ² (Yield, 23°C) Tensile Strain ³ (Break, 233°C)			
	25.7	MPa	ISO 527-2
Tensile Strain ³ (Break, 233°C)	25.7 320	MPa %	ISO 527-2 ISO 527-2
Tensile Strain ³ (Break, 233°C) Flexural Modulus - Chord ⁴ (23°C)	25.7 320 2760	MPa % MPa	ISO 527-2 ISO 527-2 ISO 178
Tensile Strain ³ (Break, 233°C) Flexural Modulus - Chord ⁴ (23°C) Impact	25.7 320 2760	MPa % MPa	ISO 527-2 ISO 527-2 ISO 178 Test Method
Tensile Strain ³ (Break, 233°C) Flexural Modulus - Chord ⁴ (23°C) Impact Notched Izod Impact - Flow	25.7 320 2760 Nominal Value	MPa % MPa Unit	ISO 527-2 ISO 527-2 ISO 178 Test Method
Tensile Strain ³ (Break, 233°C) Flexural Modulus - Chord ⁴ (23°C) Impact Notched Izod Impact - Flow -30°C, 3.18 mm, Injection Molded	25.7 320 2760 Nominal Value	MPa % MPa Unit J/m	ISO 527-2 ISO 527-2 ISO 178 Test Method

Heat Deflection Temperature (0.45 MPa,			
Unannealed)	114	°C	ISO 75-2/Bf
CLTE - Flow (-30 to 100°C)	4.1E-5	cm/cm/°C	ASTM E831
Flammability	Nominal Value		Test Method
Flame Rating (3.18 mm, All Colors)	НВ		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
Auditional information	Normila value	Offit	rest Metrica
Heat Sag - 8 inch span, two point support	Normal value	Offic	rost would
	0.00	mm	ASTM D3769
Heat Sag - 8 inch span, two point support			
Heat Sag - 8 inch span, two point support (149°C, 3.20 mm)			
Heat Sag - 8 inch span, two point support (149°C, 3.20 mm) NOTE	0.00		
Heat Sag - 8 inch span, two point support (149°C, 3.20 mm) NOTE 1.	0.00 Method A		

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