

ECOTRAN® E 1040S NC AS

Polyphenylene Sulfide

A. Schulman Europe

Message:

PPS 40% glass fibre reinforced

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Features	Good dimensional stability		
	Impact modification		
	Low warpage		
	Low smoke		
	Laser marking		
	Laser welding		
	High liquidity		
	Hydrolysis resistance		
	Thermal Stability		
	Fill		
	Halogen-free		
	No antimony		
	Flame retardancy		
Processing Method	Gas-Assisted Injection Molding		
	Water-Assisted Injection Molding		
	Blow molding		
	Extrusion		
	Injection molding		
Resin ID (ISO 1043)	PPS GF40		
Physical	Nominal Value	Unit	Test Method
Density	1.64	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	30.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	190	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.6	%	ISO 527-2/1A/5
Flexural Modulus ¹	16000	MPa	ISO 178
Flexural Stress (2.0% Strain)	290	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/1eA
-30°C	10	kJ/m ²	ISO 179/1eA
23°C	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	37	kJ/m ²	ISO 179/1eU
23°C	42	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	266	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.800 mm	V-0		IEC 60695-11-10, -20
1.60 mm	V-0		IEC 60695-11-10, -20
3.20 mm	V-0		IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	960	°C	IEC 60695-2-12
3.00 mm	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	850	°C	IEC 60695-2-13
3.00 mm	850	°C	IEC 60695-2-13
Additional Information			
1.) Not for use in food contact applications2.) Not for use in medical or pharmaceutical applications			
NOTE			
1. 2.0 mm/min			

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