

ECOTRAN® E1040ST

PPS-GF40

HDC Polyall

Rheological properties	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	15100	MPa	ISO 527
Tensile Strength	195	MPa	ISO 527
Strain at Break	2	%	ISO 527
Impact Strength (Charpy), +23°C	68	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	10	kJ/m ²	ISO 179/1eA
Flexural Modulus (23°C)	15000	MPa	ISO 178
Flexural strength	290	MPa	ISO 178
Rockwell Hardness	R 121	-	ISO 2039-2

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	279	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	265	°C	ISO 75-1/-2
Burning Behav. at thickness h	V-0	class	UL 94
Thickness tested	3.2	mm	-

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.8	-	IEC 62631-2-1
Dissipation Factor, 1MHz	16	E-4	IEC 62631-2-1
Volume Resistivity	1E14	Ohm*m	IEC 62631-3-1
Electric Strength	28	kV/mm	IEC 60243-1
Comparative tracking index	175	-	IEC 60112
ASTM Data			
Arc Resistance	125	s	ASTM D 495

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.02	%	Sim. to ISO 62
Density	1620	kg/m ³	ISO 1183

Characteristics

Special Characteristics

Impact modified