

ECOTRAN® E1040HR NC

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 Strength	185	MPa	ISO 527
Strain at Break	1.5	%	ISO 527
Impact Strength (Charpy), +23°C	30	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	9	kJ/m ²	ISO 179/1eA
Flexural Modulus (23°C)	13000	MPa	ISO 178
Flexural strength	275	MPa	ISO 178
Rockwell Hardness	R 120	-	ISO 2039-2

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	280	°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	3.0	mm	-

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Electric Strength	28	kV/mm	IEC 60243-1
Comparative tracking index	175	-	IEC 60112
Relative permittivity, 1MHz	3.8	-	IEC 60250
Dissipation Factor, 1MHz	16	E-4	IEC 60250
Volume Resistivity	1E14	Ohm*m	IEC 60093
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	1640	kg/m ³	ISO 1183

Characteristics

Features

Weldable

Chemical Resistance

Hydrolysis