

SKYPLETE ES400

Copolyester

SK Chemicals

SK Chemicals has developed SKYPLETE ES400 which offers excellent properties for 3D printing filaments.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0035	mm/mm	ASTM D 955
Density, 73 °F	1270	kg/m ³	ASTM D 792

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Yield stress	51	MPa	ISO 527
Yield strain	6.3	%	ISO 527
Stress at Break	50	MPa	ISO 527
Strain at Break	130	%	ISO 527
Flexural Modulus (23 °C)	1800	MPa	ISO 178
Flexural strength	76	MPa	ISO 178
Notched Impact Strength (Izod), 23 °C	93	kJ/m ²	ISO 180/1A
ASTM Data			
Rockwell Hardness	R 119	-	ASTM D 785

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	94	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	110	°C	ISO 75-1/-2

Optical Properties	Value	Unit	Test Standard
ASTM Data			
Haze	1	%	ASTM D 1003
Light Transmittance	81	%	ASTM D 1003

Characteristics

Processing

Additive Manufacturing

Certifications

Contains renewable resources

Special Characteristics

Transparent

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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