Polyamide 66

Arcomid® A ST Z90

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Technical data sheet

Basic information

Polyamide 66 for injection moulding with very high impact resistance even at low temperatures.

Processing data

Barrel:	**260 - 290 °C**
Mould:	**60 - 90 °C**
Mould shrinkage along flow (3,2 mm):	**1,6 - 1,8%**
Drying temperature:	**2-3 h / 70 - 90 °C**

Typical properties	Units	Typical value	Method		
			ASTM	DIN	ISO
Physical					
Density	Mg/m³	**1,07**	D792	53479	R1183
Water absorption saturation	%	**5,5**	D570		
Water absorption 24h	%	**0,60**	D570		
Mechanical					
Tensile strength	MPa	**50**	D638	53455	R527
Tensile modulus	MPa	**1800**	D638	53457	R527
Elongation at break	%	**>100**	D638	53455	R527
Flexural strength	MPa	**80**	D790	53452	178
Flexural modulus	MPa	**1600**	D790	53457	178
IZOD:					
Impact strength notched 3,2 mm (+23 °C)	J/m	**800**	D256		R180
Impact strength notched 3,2 mm (- 20 °C)	J/m	**680**	D256		R180
Impact strength notched 3,2 mm (- 40 °C)	J/m	**450**	D256		R180
Rockwell hardness			D785		
Shore D hardness			D2240		
Thermal					
Heat distorsion temperature HDT 1,81 N/mm²	°C	**80**	D648	53461	
Heat distorsion temperature HDT 0,45 N/mm²	°C	**220**	D648	53461	
VICAT softening point 49 N	°C		D1525	53460	
VICAT softening point 9,8 N	°C		D1525	53460	
Melting point	°C	**258**	D2117	53736	
Electrical					
Tracking resistance (CTIM)	V	**600**			IEC 112
Tracking resistance (CTI)	V	**600**			IEC 112
Flammability					
UL 94 flammability (2mm)		**HB**			UL-94

The information contained in this technical data sheet is only a guideline: it aims to help the customer in the use of our products. Therefore it has no value as formal guarantee.
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