

Technical Datasheet FPE Shore 45D

General information

Trade name	FPE Filament Shore 45D		
Polymer name	Flexible Poly Ester		

Filament specifications

Trade diameter	1.75mm		3mm	
Physical diameter	1.75	mm	2.85	mm
Tolerance	0.05	mm	0.08	mm

Material specifications

Property	Value	Unit	Test Method
<i>Physical</i>			
density	1.15	kg/cm ³	ISO 1183
melt volume flow rate (230 °C, 2.16kg)	39	cm ³ /10min	ISO 1133
<i>Mechanical</i>			
tensile modulus	135	MPa	ISO 527
stress @ 5% elongation	6.0	MPa	ISO 527
stress @ 10% elongation	9.2	MPa	ISO 527
stress @ 50% elongation	13.2	MPa	ISO 527
stress @ 100% elongation	14.4	MPa	ISO 527
stress @ break	21.0	MPa	ISO 527
elongation @ break	350	%	ISO 527
shore D hardness	45	-	ISO 868
izod notched impact strength	N	kJ/m ²	ISO 180
<i>Thermal</i>			
melting point (10°C/min)	180	°C	ISO 11357
vicat softening point (50°C/h, 10N)	85	°C	ISO 306
burning behavior (1.5mm thickness)	HB	class	IEC 60695-11-10
thickness tested	1.6	mm	IEC 60695-11-10

Notes

- the above values are measured on uncolored raw material. Actual material properties may differ depending on color additives.
- properties may change depending on actual printer settings



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