

**PEEK**  
TECHNICAL DATA SHEET

**FULL NAME:** POLYETHER ETHER KETONE

MECHANICAL PROPERTIES	TEST METHOD	UNIT	CONDITION OF SPECIMEN	GUIDELINE VALUE
TENSILE STRENGTH AT BREAK	ISO 527	MPA	DRY	96
ELONGATION AT BREAK	ISO 527	%	DRY	30
MODULUS OF ELASTICITY IN TENSION	ISO 527	MPA	DRY	3500
CHARPY IMPACT STRENGTH	ISO 179/1EA	KJ/M <sup>2</sup>	DRY +23°C	NO BREAK
CHARPY NOTCHED IMPACT STRENGTH	ISO 179/1EA	KJ/M <sup>2</sup>	DRY	7

THERMAL PROPERTIES				
HEAT DISTORTION TEMPERATURE	ISO 75	°C	DRY - METHOD A	155
	ISO 75	°C	DRY - METHOD B	205
MELTING POINT	ISO 3146	°C	-	340
THERMAL COEFFICIENT OF LINEAR EXPANSION	DIN 53452	1/K•10 <sup>-5</sup>	DRY	0,6

DIELECTRIC PROPERTIES				
DIELECTRIC CONSTANT	IEC 250	-	DRY - 1 MHz	2,8
DIELECTRIC STRENGTH	IEC 243	KV/MM	DRY	16
VOLUME RESISTIVITY	IEC 93	Ω•CM	DRY	10 <sup>15</sup>
SURFACE RESISTIVITY R <sub>0A</sub>	IEC 93	Ω	DRY	10 <sup>14</sup>
COMPARATIVE TRACKING INDEX	IEC 112	-	DRY/MOIST	200

MISCELLANEOUS PROPERTIES				
MASS DENSITY - METHOD D, E	ISO 1183	G/CM <sup>3</sup>	DRY	1,30
WATER ABSORPTION - SATURATION	ISO 62	%	-	0,5
FIRE PERFORMANCE FLAMEABILITY UL STANDARD (THICKNESS OF SPECIMEN 1,6 MM)	UL 94	-	-	V0

REV.	DATE	DESCRIPTION	MODIFIED PARAGRAPHS	WRITTEN BY	APPROVED BY
01	12/2020	LAYOUT UPDATE	//	601.37	601.37

**THIS DATASHEET AND ALL PROPERTIES INDICATED COME DIRECTLY FROM THE PRODUCER'S STUDIES AND TESTS. D.H. LAMINA S.R.L. DOES NOT PRODUCE THE MATERIAL.**  
THE CONTENTS OF THIS DATASHEETS ARE MEANT TO GIVE AN OVERVIEW OF THE PRODUCT'S PROPERTIES. IT REFLECTS OUR CURRENT KNOWLEDGE AND MAY NOT BE COMPLETE. THE VALUES SHOULD BE TAKEN AS GUIDE VALUES BECAUSE THEY ARE DEPENDENT ON SURROUNDING CONDITIONS AND MACHINING METHODS. THE VALUES ARE IN NO WAY A LEGALLY BINDING ASSURANCE OF THE PRODUCT'S PROPERTIES OR ITS SUITABILITY FOR USE IN A SPECIFIC APPLICATION. ALL STATED VALUES ARE AVERAGE ESTABLISHED FROM MANY INDIVIDUAL TESTS. FOR SPECIFIC APPLICATIONS, WE RECOMMEND DETERMINING SUITABILITY BY MEANS A TRIAL.

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