

PET SL
TECHNICAL DATA SHEET

FULL NAME: POLYETHYLENE TEREPHTHALATE + SOLID LUBRICANT

MECHANICAL PROPERTIES	TEST METHOD	UNIT	CONDITION OF SPECIMEN	GUIDELINE VALUE
TENSILE STRENGTH AT BREAK	ISO 527	MPA	DRY	75
ELONGATION AT BREAK	ISO 527	%	DRY	5
MODULUS OF ELASTICITY IN TENSION	ISO 527	MPA	DRY	3230
CHARPY IMPACT STRENGTH	ISO 179/1EA	KJ/M ²	DRY +23°C	23
CHARPY NOTCHED IMPACT STRENGTH	ISO 179/1EA	KJ/M ²	DRY	10
HARDNESS SHORE SCALE D	ISO 868		DRY	81

THERMAL PROPERTIES				
MAXIMUM SERVICE TEMPERATURE FOR FEW HOURS OPERATION		°C	-	160
TEP 5 000 HOURS (50% OF TENSILE STRENGTH) ¹⁾	IEC 216	°C	-	115
TEP 20 000 HOURS (50% OF TENSILE STRENGTH) ¹⁾	IEC 216	°C	-	100
THERMAL COEFFICIENT OF LINEAR EXPANSION	DIN 53452	1/K•10 ⁻⁵	DRY	6

MISCELLANEOUS PROPERTIES				
MASS DENSITY - METHOD D, E	ISO 1183	G/CM ³	DRY	1,38
MOISTURE ABSORPTION AT 23°C, 50% RH - SATURATION	ISO 1110	%	-	0,23 ± 0,5
WATER ABSORPTION - SATURATION	ISO 62	%	-	0,5
FIRE PERFORMANCE FLAMEABILITY UL STANDARD (THICKNESS OF SPECIMEN 1,6 MM)	UL 94	-	-	HB
RESISTANCE TO WEAR ²⁾	ISO 7148-2	μM/KM	DRY	1,1

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

¹⁾ DATAS OF RESIN ONLY

²⁾ MADE BY A PIN / ROTATING DISC TEST ACCORDING DIN-ISO 7148-2 UNDER FOLLOWING CONDITIONS: R_a= 0,35 - 0,45 μM (STEEL DISC), v=0,3 M/S, P = 3 N/MM², TIME T>16H

THIS DATASHEET AND ALL PROPRIETIES 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 PROPRIETIES. 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 PROPRIETIES 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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