

DELIN® 100AF natural blend (TECAFORM AD AF) - Stock Shapes (rods, plates, tubes)

Chemical Designation

POM-H (Polyacetal (Homopolymer))

Colour

brown

Density

1.5 g/cm³

Fillers

PTFE fibres

Main features

- excellent wear properties
- low static friction
- high mechanical load capacity
- good machinability

Target Industries

- conveyor technology
- automotive industry
- business machines
- heavy duty industry
- printing machines
- packaging and paper machinery

Mechanical properties	condition	value	unit	test method	comment
Modulus of elasticity (tensile test)	@ 73 °F	350,000	psi	ASTM D 638	(1) ASTM D732
Tensile strength at yield	@ 73 °F	7100	psi	ASTM D 638	
Elongation at yield (tensile test)	@ 73 °F	10.3	%	-	
Flexural strength	@ 73 °F	11,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)		485,000	psi	ASTM D 790	
Compression strength	@ 73° F, 1% Strain	2,600	psi	ASTM D 695	
Compression strength	@ 73° F, 10% strain	12,500	psi	ASTM D 695	
Compression modulus	@ 73 °F	260,000	psi	ASTM D 695	
Impact strength (Izod)	@ 73 °F	0.82	ft-lbs/in	ASTM D 256	
Rockwell hardness	M Scale	79		ASTM D 785	
Shore hardness	D scale	80.4		ASTM D 2240	
Shear strength	72 F	7262	psi	-	1)
Thermal properties	condition	value	unit	test method	comment
Melting temperature		347	°F	-	1) (1) injection molded data
Deflection temperature	@264 psi	244	°F	ASTM D 648	2) (2) injection molded data
Deflection temperature	@ 66 psi	334	°F	ASTM D 648	3) (3) injection molded data
Service temperature	Long Term	185	°F	-	4) (4) i
Service temperature	Intermittent	300	°F	-	4)
Other properties	condition	value	unit	test method	comment
Moisture absorption	@ 24 hrs, 73 °F	0.12	%	ASTM D 570	

→ resin specification:

ASTM D6778-14 POM0110L13B45340 superseding ASTM D4181-00 POM110L13A21220 or ASTM D4181-00 POM110L13A00000

shapes specification:

ASTM D6100-11 S-POM0132

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