

Apilon 52® D 25

Technical DataSheet | Supplied by API

Apilon 52® D25 by API is a durable ester based thermoplastic polyurethane elastomer grade. Possesses high flowability, elevated elasticity, excellent mechanical properties and low temperatures resistance. Exhibits good chemical-, oils-, fats-, abrasion-, hydrolysis and light resistance. Is suitable for processing by injection molding. Apilon 52® D25 is recommended for technical articles.

Product Type	TPU or TPE-U (Thermoplastic Polyurethane) > TPU, Ester / Ether
Product Status	COMMERCIAL
Applications/ Recommended for	Injection molding - thermoplastics
Key Features	Chemical resistance, Good Durable

Apilon 52® D 25 Properties

Physical	Value & Unit	Test Condition	Test Method
Specific Gravity	1.20 g/cm ³		ASTM D792
Abrasion Resistance	30 mm ³		DIN 53516

Mechanical	Value & Unit	Test Condition	Test Method
Hardness, Shore	83	Shore A, 15"	ASTM D2240
Tear Strength	90 kN/m	w.n.	ASTM D624
Tensile Modulus	4.5 MPa	100% Elongation	ASTM D638
Tensile Modulus	9.0 MPa	300% Elongation	ASTM D638

Tensile Strength	40.0 MPa		ASTM D638
Tensile Elongation	600 %	at Break	ASTM D638
Impact Strength, Notched Izod	No Break J/m	-20°C	ASTM D256
Hardness, Shore	35	Shore D, 3"	ASTM D2240

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Apilon 52® D 25 Processing Guidelines

Injection Molding	Value & Unit	Test Condition	Test Method
Zone 1 Temperature	180 - 190 °C		
Zone 2 Temperature	185 - 200 °C		
Zone 3 Temperature	190 - 215 °C		
Zone 4 Temperature	200 - 230 °C		
Mold Temperature	30 - 60 °C		
Injection Pressure	500 - 1000 bar		
Molding Shrinkage	0.5 - 2 %		

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