

# Sipolprene® 35180 W

Thermoplastic Copolyester Elastomer

SIPOL S.p.A

## Message:

Sipolprene® 35180 W is an ether ester thermoplastic elastomer (TPC-ET), developed and manufactured by Sipol, with a nominal hardness of Shore D 35, a low modulus, and a rheological behaviour, which makes it suitable for injection molding and extrusion processing. Sipolprene® 35180 W comes in a dry blend UV-stabilised version.

General Information			
Additive	UV Stabilizer		
Features	Good UV Resistance		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm <sup>3</sup>	ISO 1183, ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	34	g/10 min	ASTM D1238, ISO 1133
Water Absorption <sup>1</sup> (23°C, 24 hr)	0.73	%	Internal Method

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	35		ASTM D2240, ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	26.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	800	%	ASTM D638, ISO 527-2
Flexural Modulus	45.0	MPa	ASTM D790, ISO 178
Abrasion Resistance	26.0	mm <sup>3</sup>	DIN 53516

Elastomers	Nominal Value	Unit	Test Method
Tear Strength	113	kN/m	ASTM D1004

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	No Break		ASTM D256

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	111	°C	ISO 306/A50, ASTM D1525 <sup>2</sup>
Peak Melting Temperature	177	°C	ASTM D3418, ISO 3146

NOTE			
1.	Immersion		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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