Sipolprene® 46185 W

Thermoplastic Copolyester Elastomer

SIPOL S.p.A

Message:

Sipolprene® 46185 W is an ether ester thermoplastic elastomer (TPC-ET), developed and manufactured by Sipol, with a nominal hardness of Shore D 44, a low modulus, and a rheological behaviour, which makes it suitable for injection moulding and extrusion processing.
Sipolprene® 46185 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
Specific Gravity	1.16	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	34	g/10 min	ASTM D1238, ISO 1133
Water Absorption [1] (23°C, 24 hr)	0.45	%	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	44		ASTM D2240, ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	34.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	700	%	ASTM D638, ISO 527-2
Flexural Modulus	80.0	MPa	ASTM D790, ISO 178
Abrasion Resistance	19.0	mm³	DIN 53516
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength	142	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	149	°C	ISO 306/A50, ASTM D1525 [2]
Peak Melting Temperature	186	°C	ASTM D3418, ISO 3146
NOTE			
1.	Immersion		
2.	Rate A (50°C/h), Loading 1 (10 N)		

Recommended distributors for this material

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