

Sipolprene® 55211

Thermoplastic Copolyester Elastomer

SIPOL S.p.A

Message:

Sipolprene® 55211 is an ether ester thermoplastic elastomer (TPC-ET), developed and manufactured by Sipol, with a nominal hardness of Shore D 54 and a rheological behaviour, which makes it suitable for injection moulding and extrusion processing.

General Information			
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm³	ISO 1183, ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238, ISO 1133
Water Absorption ¹ (23°C, 24 hr)	2.1	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	54		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	39.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	570	%	ASTM D638, ISO 527-2
Flexural Modulus	132	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	215	°C	ASTM D3418, ISO 3146
NOTE			
1.	Immersion		

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