

Arnitel® XG5858

Thermoplastic Copolyester Elastomer
DSM Engineering Plastics

Message:

Arnitel® XG5858 is a Thermoplastic Copolyester Elastomer (TPC-ET) material. It is available in Asia Pacific, Europe, or North America for injection molding.
Primary attribute of Arnitel® XG5858: Flame Rated.

General Information			
UL YellowCard	E47960-100143549		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	13.8	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.16	%	
Equilibrium, 23°C, 50% RH	0.45	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 3 sec)	82		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	55.0	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	8.80	MPa	
10% Strain	1.90	MPa	
100% Strain	4.10	MPa	
Nominal Tensile Strain at Break	550	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ¹	180	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	8.4E+13	ohms · cm	IEC 60093
Electric Strength	22	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (0.800 mm)	V-2		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	150 to 180	°C	
Middle Temperature	180 to 200	°C	
Front Temperature	190 to 215	°C	
Nozzle Temperature	190 to 230	°C	
Processing (Melt) Temp	190 to 240	°C	

Mold Temperature	20.0 to 50.0	°C
Injection Rate	Moderate-Fast	
Back Pressure	2.00 to 5.00	MPa
Screw Compression Ratio	2.5:1.0	

NOTE

1.
- 10°C/min

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

