

Arnitel® UM552

Thermoplastic Copolyester Elastomer
DSM Engineering Plastics

Message:

Arnitel® UM552 is a Thermoplastic Copolyester Elastomer (TPC-ES) material. It is available in Europe or North America for coating, extrusion, film extrusion, injection molding, or sheet extrusion.
Important attributes of Arnitel® UM552 are:
Flame Rated
Impact Resistant

General Information	
UL YellowCard	E47960-240184
Features	Good Impact Resistance
Processing Method	Coating
	Extrusion
	Film Extrusion
	Injection Molding
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.5	g/10 min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.60	%	
Equilibrium, 23°C, 50% RH	0.25	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	55		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	250	MPa	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	80.0	°C	ISO 75-2/B
Vicat Softening Temperature	85.0	°C	ISO 306/B50
Melting Temperature ¹	195	°C	ISO 11357-3
CLTE - Flow	1.6E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		
1.50 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	200 to 220	°C	
Middle Temperature	210 to 230	°C	
Front Temperature	220 to 240	°C	
Nozzle Temperature	230 to 250	°C	
Processing (Melt) Temp	230 to 250	°C	
Mold Temperature	20.0 to 50.0	°C	
Injection Rate	Moderate-Fast		
Back Pressure	3.00 to 10.0	MPa	
Screw Compression Ratio	2.5:1.0		
NOTE			
1.	10°C/min		

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