

LONGLITE® TPEE 1172LL

Thermoplastic Polyester Elastomer

CCP Group

Message:

1172LL is high modulus grade with nominal Durometer hardness of 72D. It contains non-discolour stable antioxidants. It can be processed by thermoplastic processing techniques like injection molding grade.

CHARACTERISTICS

1. Excellent high modulus for injection molding grade.
2. Excellent flexibility and fatigue resistance.
3. Excellent creep resistance.
4. Excellent low shrinkage and higher melting temperature

General Information			
Additive	Antioxidation		
Features	Antioxidation		
	Good creep resistance		
	Good flexibility		
	Good color stability		
	Fatigue resistance		
	Low shrinkage		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30	g/10 min	ISO 1133
Molding Shrinkage	1.0	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	854	MPa	ISO 527-2
Tensile Stress (Yield)	40.0	MPa	ISO 527-2
Tensile Strain (Break)	240	%	ISO 527-2
Flexural Modulus	290	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	14	kJ/m²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	218	°C	ISO 3146

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	9.0E+13	ohms	IEC 60093
Volume Resistivity	1.3E+16	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	18	kV/mm	IEC 60243-1
Injection	Nominal Value	Unit	
Drying Temperature	105	°C	
Drying Time	3.0 - 5.0	hr	
Suggested Max Moisture	< 0.10	%	
Rear Temperature	220 - 230	°C	
Middle Temperature	230 - 260	°C	
Front Temperature	230 - 260	°C	
Nozzle Temperature	230 - 260	°C	
Processing (Melt) Temp	218	°C	
Mold Temperature	20.0 - 50.0	°C	
Injection Pressure	29.4 - 98.1	MPa	
Holding Pressure	4.90 - 39.2	MPa	
Screw Speed	40 - 80	rpm	
Injection instructions			

Injection time: 2 to 10 secHolding pressure time: 10 to 30 sec

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