

KOPEL® KP3755

Thermoplastic Polyester Elastomer

Kolon Plastics, Inc.

Message:

KOPEL® KP3755 is a Thermoplastic Polyester Elastomer (TPEE) product. It can be processed by extrusion and is available in Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Flame Rated

High Viscosity

General Information			
Features	High Viscosity		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.50	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	35.8	MPa	ASTM D638
Tensile Elongation (Yield, 23°C)	650	%	ASTM D638
Flexural Modulus (23°C)	172	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, CS-17 Wheel)	5.00	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	100	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746
Peak Melting Temperature	199	°C	ASTM D3418
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	
Resilience	56	%	

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