

Integra™ 9060 FR

Polyketone

PolySource, LLC

Message:

High viscosity grade for injection molding & extrusion (Natural color), Non Halogen FR Technology

General Information			
Additive	Flame retardancy		
Features	Halogen-free		
	Viscosity, High		
	Flame retardancy		
Appearance	Natural color		
Processing Method	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (240°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.8 - 2.0	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60%RH)	0.50	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	57.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	> 150	%	ASTM D638
Flexural Modulus (23°C)	1600	MPa	ASTM D790
Flexural Strength (23°C)	64.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	105	°C	ASTM D648
Peak Melting Temperature	220	°C	ASTM D1525

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149

Flammability	Nominal Value	Unit	Test Method
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