RTP 2205 TFE 15

Polyetheretherketone

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'

The data for this material has not been recently verified.

Please contact RTP Company for current information prior to specifying this grade.

PEEK is a high performance crystalline thermoplastic combining the chemical and thermal properties of some thermosets and ease of processability.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight			
Additive	PTFE lubricant (15%)			
Features	High strength			
	Good chemical resistance			
	Good wear resistance			
	Thermal stability, good			
	Lubrication			
RoHS Compliance	Contact manufacturer			
Appearance	Black			
	Natural color			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.65	g/cm³	ASTM D792	
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955	
Water Absorption (23°C, 24 hr)	0.011	%	ASTM D570	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	12400	MPa	ASTM D638	
Tensile Strength			ASTM D638	
Yield	145	MPa	ASTM D638	
	165	MPa	ASTM D638	
Tensile Elongation (Break)	1.5	%	ASTM D638	
Flexural Modulus	11000	MPa	ASTM D790	
Flexural Strength			ASTM D790	
	234	MPa	ASTM D790	
Yield	234	MPa	ASTM D790	
Coefficient of Friction (With Metal-Dynamic)	0.20		ASTM D1894	
Impact	Nominal Value	Unit	Test Method	

Notched Izod Impact (3.18 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	800	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8			
MPa, Unannealed)	288	°C	ASTM D648
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	15	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.20		ASTM D150
Dissipation Factor (1 MHz)	5.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, RTP Tested)	V-0		UL 94

Molding Shrinkage, ASTM D955, 0.25in: 3 mil/inWear Factor, K, ASTM D-3702: 75E-10in³/min/ft/lb/hrThe coefficient of friction was tested on a Falex Model No.6 Wear Testing Machine at 50 FPM, 2000 PV, against C1018 steel of hardness 15-25 Rockwell C, 14-17 micro smoothness.

Injection	Nominal Value	Unit
Drying Time	3.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	357 - 427	°C
Middle Temperature	357 - 427	°C
Front Temperature	357 - 427	°C
Mold Temperature	121 - 204	°C
Injection Pressure	82.7 - 103	MPa

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