RTP 200 TFE 20 SI 2

Polyamide 66

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.

Features Lubrication RoHS Compliance Contact manufacturer Appearance Black Natural color Forms Particle Processing Method Injection molding Physical Nominal Value Unit Test Method Roding Shrinkage - Flow (3.18 mm) 1.4 % ASTM D792 Hardness Nominal Value Unit Test Method Rockwell Hardness (R-Scale) 118 Washer Sale Method Tensile Modulus 2830 MPa ASTM D785 Mechanical Nominal Value Unit Test Method Tensile Modulus 2830 MPa ASTM D638 Tensile Strength 62.1 MPa ASTM D638 Tensile Elongation (Break) 9.0 % ASTM D638 Tensile Strength 93.1 MPa ASTM D695 Compressive Strength 93.1 MPa ASTM D695 Compressive Strength 32.4 MPa ASTM D695 Compressive Strength 93.1 ASTM D695 Compressive Strength 94.1	General Information			
Features Lubrication Contact manufacturer Appearance Black Natural color Forms Particle Processing Method Injection molding Physical Nominal Value Unit Test Method Specific Gravity 1.27 g/cm² ASTM D792 Molding Shrinkage - Flow (3.18 mm) 1.4 % ASTM D795 Water Absorption (23°C, 24 hr) 0.80 % ASTM D570 Hardness Nominal Value Unit Test Method Rockwell Hardness (R-Scale) 118 \ Nominal Value Unit Test Method Tensile Mondulus 2830 MPa ASTM D785 Mechanical Nominal Value Unit Test Method Tensile Strength 62.1 MPa ASTM D638 Tensile Etongation (Break) 9.0 % ASTM D638 Tensile Etongation (Break) 9.0 % ASTM D638 Tensile Strength 93.1 MPa ASTM D695 Compressive Strength 93.1 MPa ASTM D695 Compressive Strength 93.1 MPa ASTM D695 Compressive Strength 93.1 MPa ASTM D695 Coefficient of Friction (With Metal-Dynamic) Unit Test Method Unit Test Method Unit Test Method Notched Izod Impact (3.18 mm) 43 Unim ASTM D256 Unnotched Izod Impact (3.18 mm) 750 Unnotched Izod Impact (3.18 mm) 750 Unit Test Method Deflection Temperature Under Load 0.45 MPa, not annealed 210 °C ASTM D648	Additive	PTFE lubricant (20%)		
ROHS Compliance Contact manufacturer Appearance Black Natural color Forms Particle Processing Method Injection molding Physical Nominal Value Unit Test Method Specific Gravity 1.27 g/cm³ ASTM D792 Molding Shrinkage - Flow (3.18 mm) 1.4 % ASTM D550 Water Absorption (23°C, 24 hr) 0.80 % ASTM D570 Hardness Nominal Value Unit Test Method Rockwell Hardness (R-Scale) 118 Test Method ASTM D785 Mechanical Nominal Value Unit Test Method Tensile Modulus 2830 MPa ASTM D638 Tensile Elongation (Break) 9.0 % ASTM D638 Tensile Elongation (Break) 9.0 % ASTM D638 Flexural Modulus 2340 MPa ASTM D638 Flexural Strength 3.2.4 MPa ASTM D695 Coefficient of Friction (With Metal-Dynamic) Metal-Dynamic) ASTM D680		Silicone lubricant (2%)		
Appearance Black Natural color	Features	Lubrication		
Natural color Particle	RoHS Compliance	Contact manufacturer		
Particle Processing Method Injection molding Physical Nominal Value Unit Test Method Specific Gravity 1.27 g/cm³ ASTM D792 Molding Shrinkage - Flow (3.18 mm) 1.4 % ASTM D955 ASTM D955 ASTM D870 ASTM D785 ASTM D886 ASTM D896 ASTM	Appearance	Black		
Processing Method Injection molding Physical Nominal Value Unit Test Method Specific Gravity 1.27 g/cm³ ASTM D792 Molding Shrinkage - Flow (3.18 mm) 1.4 % ASTM D955 Water Absorption (23°C, 24 hr) 0.80 % ASTM D570 Hardness Nominal Value Unit Test Method Rockwell Hardness (R-Scale) 118 ASTM D785 Mechanical Nominal Value Unit Test Method Tensile Modulus 2830 MPa ASTM D638 Tensile Etlongation (Break) 9.0 % ASTM D638 Tensile Elongation (Break) 9.0 % ASTM D638 Flexural Modulus 2340 MPa ASTM D790 Flexural Strength 32.4 MPa ASTM D695 Coefficient of Friction (With Metal-Dynamic) 0.060 MPa ASTM D695 Coefficient of Friction (With Metal-Dynamic) Morninal Value Unit Test Method Notched Izod Impact (3.18 mm) 43 J/m ASTM D2		Natural color		
Physical Nominal Value Unit Test Method Specific Gravity 1.27 g/cm³ ASTM D792 Molding Shrinkage - Flow (3.18 mm) 1.4 % ASTM D955 Water Absorption (23°C, 24 hr) 0.80 % ASTM D570 Hardness Nominal Value Unit Test Method Rockwell Hardness (R-Scale) 118 ASTM D785 Mechanical Nominal Value Unit Test Method Tensile Modulus 2830 MPa ASTM D638 Tensile Strength 62.1 MPa ASTM D638 Tensile Elongation (Break) 9.0 % ASTM D638 Flexural Strength 33.1 MPa ASTM D790 Flexural Strength 33.1 MPa ASTM D695 Coefficient of Friction (With Metal-Dynamic) 0.060 MPa ASTM D894 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 43 J/m ASTM D4812 Thermal Nominal Value Unit Test Method	Forms	Particle		
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Hardness Nominal Value Unit Test Method Rockwell Hardness (R-Scale) 118	Molding Shrinkage - Flow (3.18 mm)	1.4	%	ASTM D955
Rockwell Hardness (R-Scale) 118 ASTM D785 Mechanical Nominal Value Unit Test Method Tensile Modulus 2830 MPa ASTM D638 Tensile Strength 62.1 MPa ASTM D638 Tensile Elongation (Break) 9.0 % ASTM D638 Flexural Modulus 2340 MPa ASTM D790 Flexural Strength 93.1 MPa ASTM D790 Compressive Strength 32.4 MPa ASTM D695 Coefficient of Friction (With Metal-Dynamic) 0.060 MPa ASTM D695 Coefficient of Priction (With Metal-Dynamic) Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 43 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 750 J/m ASTM D4812 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 210 °C ASTM D648	Water Absorption (23°C, 24 hr)	0.80	%	ASTM D570
Mechanical Nominal Value Unit Test Method Tensile Modulus 2830 MPa ASTM D638 Tensile Strength 62.1 MPa ASTM D638 Tensile Elongation (Break) 9.0 % ASTM D638 Flexural Modulus 2340 MPa ASTM D790 Flexural Strength 93.1 MPa ASTM D790 Compressive Strength 32.4 MPa ASTM D695 Coefficient of Friction (With Metal-Dynamic) 0.060 MPa ASTM D1894 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 43 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 750 J/m ASTM D4812 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load 210 °C ASTM D648	Hardness	Nominal Value	Unit	Test Method
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Tensile Elongation (Break) 9.0 % ASTM D638 Flexural Modulus 2340 MPa ASTM D790 Flexural Strength 93.1 MPa ASTM D790 Compressive Strength 32.4 MPa ASTM D695 Coefficient of Friction (With Metal-Dynamic) 0.060 Mpa ASTM D1894 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 43 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 750 J/m ASTM D4812 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load Vominal Value Unit Test Method Deflection Temperature Under Load CASTM D648	Tensile Modulus	2830	MPa	ASTM D638
Flexural Modulus 2340 MPa ASTM D790 Flexural Strength 93.1 MPa ASTM D790 Compressive Strength 32.4 MPa ASTM D695 Coefficient of Friction (With Metal-Dynamic) 0.060 ASTM D1894 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 43 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 750 J/m ASTM D4812 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load ASTM D648 0.45 MPa, not annealed 210 °C ASTM D648	Tensile Strength	62.1	MPa	ASTM D638
Flexural Strength 93.1 MPa ASTM D790 Compressive Strength 32.4 MPa ASTM D695 Coefficient of Friction (With Metal-Dynamic) 0.060 ASTM D1894 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 43 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 750 J/m ASTM D4812 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load Unit Test Method ASTM D4812 ASTM D648 0.45 MPa, not annealed 210 °C ASTM D648	Tensile Elongation (Break)	9.0	%	ASTM D638
Compressive Strength 32.4 MPa ASTM D695 Coefficient of Friction (With Metal-Dynamic) 0.060 ASTM D1894 Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 43 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 750 J/m ASTM D4812 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load ASTM D648 0.45 MPa, not annealed 210 °C ASTM D648	Flexural Modulus	2340	MPa	ASTM D790
Coefficient of Friction (With Metal-Dynamic) Impact Nominal Value Unit Test Method Notched Izod Impact (3.18 mm) 43 Unnotched Izod Impact (3.18 mm) 750 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) Test Method Unit Test Method ASTM D4812 Thermal Nominal Value Unit Test Method ASTM D4812 ASTM D648 0.45 MPa, not annealed 210 °C ASTM D648	Flexural Strength	93.1	MPa	ASTM D790
Metal-Dynamic)0.060ASTM D1894ImpactNominal ValueUnitTest MethodNotched Izod Impact (3.18 mm)43J/mASTM D256Unnotched Izod Impact (3.18 mm)750J/mASTM D4812ThermalNominal ValueUnitTest MethodDeflection Temperature Under LoadASTM D6480.45 MPa, not annealed210°CASTM D648	Compressive Strength	32.4	MPa	ASTM D695
Notched Izod Impact (3.18 mm) 43 J/m ASTM D256 Unnotched Izod Impact (3.18 mm) 750 J/m ASTM D4812 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load ASTM D648 0.45 MPa, not annealed 210 °C ASTM D648	Coefficient of Friction (With Metal-Dynamic)	0.060		ASTM D1894
Unnotched Izod Impact (3.18 mm) 750 J/m ASTM D4812 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load ASTM D648 0.45 MPa, not annealed 210 °C ASTM D648	Impact	Nominal Value	Unit	Test Method
Thermal Nominal Value Unit Test Method Deflection Temperature Under Load ASTM D648 0.45 MPa, not annealed 210 °C ASTM D648	Notched Izod Impact (3.18 mm)	43	J/m	ASTM D256
Deflection Temperature Under Load 0.45 MPa, not annealed 210 °C ASTM D648 ASTM D648	Unnotched Izod Impact (3.18 mm)	750	J/m	ASTM D4812
0.45 MPa, not annealed 210 °C ASTM D648	Thermal	Nominal Value	Unit	Test Method
	Deflection Temperature Under Load			ASTM D648
1.8 MPa, not annealed 104 °C ASTM D648	0.45 MPa, not annealed	210	°C	ASTM D648
	1.8 MPa, not annealed	104	°C	ASTM D648

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.70		ASTM D150
Dissipation Factor (1 MHz)	0.015		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	НВ		UL 94
Additional Information			

The value listed as Flammability, UL 94, was tested in accordance with RTP test standards.Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 18mil/in.Tensile Elongation, ASTM D-638: 8-10%Wear Factor, K, ASTM D-3702: 8E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.06The wear factor and dynamic coefficient of friction were both 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 Temperature	79.4	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	20	%	
Rear Temperature	274 - 288	°C	
Middle Temperature	274 - 288	°C	
Front Temperature	274 - 288	°C	
Mold Temperature	65.6 - 107	°C	
Injection Pressure	82.7 - 124	MPa	

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