

RTP 748

High Density Polyethylene

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.
RTP 748 is a mica reinforced HDPE exhibiting improved stiffness and dimensional stability over the non-reinforced polymer.

General Information			
Filler / Reinforcement	Mica filler, 40% filler by weight		
Features	Good dimensional stability		
	Rigid, good		
	High strength		
	Good liquidity		
	Low shrinkage		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.80	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.040	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1720	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	15.2	MPa	ASTM D638
--	15.2	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Flexural Strength			ASTM D790
--	20.7	MPa	ASTM D790
Yield	20.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	75	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	350	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	93.3	°C	ASTM D648
1.8 MPa, not annealed	76.7	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	HB		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.: 10mil/in. Tensile Elongation, ASTM D-638: > 10%

Injection	Nominal Value	Unit
Drying Temperature	79.4	°C
Drying Time	2.0	hr
Suggested Max Regrind	20	%
Rear Temperature	177 - 288	°C
Middle Temperature	177 - 288	°C
Front Temperature	177 - 288	°C
Mold Temperature	23.9 - 51.7	°C
Injection Pressure	68.9 - 103	MPa
Back Pressure	0.345	MPa
Screw Speed	50 - 90	rpm
Clamp Tonnage	6.2 - 9.7	kN/cm ²

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

