PLUSTEK PB305G33BK37/43

Polyamide 6

Polyram Ram-On Industries

Message:

33% Glass Fiber Reinforced, UV and Heat Stabilized Polyamide 6, approved and listed by W.R.A.S and NSF/ANSI 61 international for potable water.

General Information			
Filler / Reinforcement	Glass Fiber,33% Filler by Weight		
Additive	Heat Stabilizer UV Stabilizer		
Features	Good UV Resistance Heat Stabilized		
Agency Ratings	NSF 61 WRAS Unspecified Rating		
RoHS Compliance	RoHS Compliant		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.37	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.20 to 0.50	%	ASTM D955
--	0.20 to 0.50	%	ISO 2577
Water Absorption			
Saturation	6.6	%	ASTM D570
Saturation, 23°C	6.6	%	ISO 62
Equilibrium, 23°C, 50% RH	2.1	%	ASTM D570, ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	113		ASTM D785, ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	10000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	180	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.5	%	ASTM D638, ISO 527-2
Flexural Modulus	9000	MPa	ASTM D790, ISO 178
Flexural Strength	250	MPa	ASTM D790, ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	200	J/m	ASTM D256
23°C	17	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load			
0.45 MPa, Unannealed	217	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ASTM D648, ISO 75-2/A
Maximum Use Temperature - Short Peaks Operation	200	°C	
Maximum Continuous Use Temperature	110	°C	
Melting Temperature	218	°C	ISO 11357-3, ASTM D3418
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+17	ohms·cm	IEC 60093
Electric Strength	80	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.80		IEC 60250
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94

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