Akulon® F232-D

Polyamide 6

DSM Engineering Plastics

Message:

Akulon® F232-D is a Polyamide 6 (Nylon 6) material. It is available in Europe for injection molding.
Important attributes of Akulon® F232-D are:
Flame Rated
High Viscosity

General Information		
UL YellowCard	E43392-235055	E47960-240085
Features	High Viscosity	
Forms	Pellets	
Processing Method	Injection Molding	
Multi-Point Data	Specific Volume vs Temperature (ISO 11403-2)	
	Viscosity vs. Shear Rate (ISO 11403-2)	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	10	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Viscosity Number	214	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	3300	--	MPa	ISO 527-2
Tensile Stress (Yield)	85.0	--	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	--	%	ISO 527-2
Nominal Tensile Strain at Break	35	--	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m²	
23°C	7.0	--	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	150	--	°C	ISO 75-2/B

1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/A
Melting Temperature [1]	220	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-4	--	cm/cm/°C	
Transverse	1.4E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength	27	20	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.90	14.0		
1 MHz	3.40	4.50		
Dissipation Factor				IEC 60250
100 Hz	0.011	0.30		
1 MHz	0.022	0.12		
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
1.50 mm	HB	--		
3.00 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0 to 8.0		hr	
Rear Temperature	230 to 235		°C	
Middle Temperature	235 to 250		°C	
Front Temperature	240 to 260		°C	
Nozzle Temperature	240 to 270		°C	
Processing (Melt) Temp	240 to 275		°C	
Mold Temperature	50.0 to 80.0		°C	
Injection Rate	Moderate-Fast			
Back Pressure	3.00 to 10.0		MPa	
Screw Compression Ratio	2.5:1.0			
NOTE				
1.	10°C/min			

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