



**PARALOID™ BTA-751U**

MBS Impact Modifier for Opaque PVC applications

**Description**

PARALOID BTA-751U is an MBS based impact modifier for PVC where clarity of the finished part is not required. This product is our most efficient MBS modifier available for PVC. PARALOID BTA-751U can render PVC 100% ductile (IZOD Impact) when loaded at 6phr or greater.

**Applications**

PARALOID BTA-751U is recommended for many non-weatherable PVC applications from low molecular weight compounds for injection molding to high molecular weight compounds in extrusion. A short list of applications follows:

- Extruded sheet
- Extruded pipe and tubes
- Opaque blow molded containers
- Calendered sheet for credit card
- Injection molded pipe fitting, electrical boxes and electronic housing

**Regional Availability**

- North America
- Latin America
- Asia Pacific
- EMEA

**Typical Physical Properties**

- White free flowing powder
- 0.37 – 0.43g/cc bulk density

**Performance**

TABLE 1: PHYSICAL PROPERTIES in K-66 PVC PROFILE COMPOUND; MBS at 10 PHR

Test Formulation		
PVC, K-66	100	
ADVASTAB TM-181FS Thermal Stabilizer	2	
ADVALUBE F-1005 Internal Lubricant	0.7	
ADVALUBE E-2100 External Lubricant	0.3	
PARALOID K-120ND Processing Aid	1.2	
PARALOID K-175 Lubricating Process Aid	0.5	
PARALOID BTA MBS Impact Modifier	10	
	<b>BTA-751-U</b>	<b>BTA-753ER</b>
Izod Impact, Ft-Lb/in, 23C	22.51	24.3
Izod Impact, Ft-Lb/in, 10C	17.18	8.79
Izod Impact, Ft-Lb/in, 00C	3.32	1.79
Tensile Strength (type V), psi	9260	9450
% Elongation at Break	215	219
DTUFL (264 psi), C	64.7	65.9
Flexural Strength, psi	10620	10870
Flexural Modulus, psi	401000	403000

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**Performance  
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TABLE 2: PHYSICAL PROPERTIES in K-56 PVC INJECTION MOLDING COMPOUND

Test Formulation		
PVC, K-66	100	
ADVASTAB TM-181FS Thermal Stabilizer	2	
ADVALUBE F-1005 Internal Lubricant	0.7	
ADVALUBE E-2100 External Lubricant	0.3	
PARALOID K-120ND Processing Aid	1.2	
PARALOID K-175 Lubricating Process Aid	0.5	
<b>MBS at 12.5 phr</b>	<b>BTA-751-U</b>	<b>BTA-753ER</b>
Izod Impact, Ft-Lb/in, 23C	18.73	21.43
Izod Impact, Ft-Lb/in, 10C	17.19	16.44
Izod Impact, Ft-Lb/in, 00C	14.22	2.3
Izod Impact, Ft-lb/in, -10C	2.7	1.39
<b>MBS at 10 phr</b>		
Izod Impact, Ft-Lb/in, 23C	16.92	19.65
Izod Impact, Ft-Lb/in, 10C	3.75	2.14
Izod Impact, Ft-Lb/in, 00C	1.9	1.4
Izod Impact, Ft-lb/in, -10C	1.21	0.89
<b>MBS at 7.5 phr</b>		
Izod Impact, Ft-Lb/in, 23C	2.44	2.23
Izod Impact, Ft-Lb/in, 10C	1.6	1.2
Izod Impact, Ft-Lb/in, 00C	1.27	0.85
Izod Impact, Ft-lb/in, -10C	0.76	0.62

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